



Cell & Gene Therapy Product Portfolio

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Stem Cell and Primary Cell Culture Media

Product Description	Catalog #	Size
PRIME-XV MSC XSFM Dual Component Kit with Phenol Red	91149DC	10 mL Supplement 5 L Basal
PRIME-XV MSC XSFM Dual Component Kit without Phenol Red	91214DC	10 mL Supplement 5 L Basal
PRIME-XV T Cell Expansion XSFM	91141	1 L
PRIME-XV T Cell CDM	91154	1 L
PRIME-XV Dendritic Cell Maturation CDM	91146	500 mL
PRIME-XV MSC Expansion SFM	91135	250 mL 1 L
PRIME-XV MSC Expansion XSFM	91149	250 mL 1 L
PRIME-XV Adipogenic Differentiation SFM	91137	100 mL
PRIME-XV Chondrogenic Differentiation XSFM	91138	100 mL
PRIME-XV Hematopoietic Basal XSFM	91211	500 mL
PRIME-XV AFSC Expansion Medium	91133	250 mL
PRIME-XV Neural Basal Medium	91201	500 mL
PRIME-XV Tumorsphere SFM	91130	100 mL
PRIME-XV NK Cell CDM	91215	1 L
Click's Medium (EHAA)	9195	500 mL

Cell Cryopreservation Solutions

Product Description	Catalog #	Size
PRIME-XV FreezIS	91139	10 mL 100 mL
PRIME-XV FreezIS DMSO-Free	91140	10 mL 100 mL

Attachment Substrates, Supplements, & Exosome Kits

Product Description	Catalog #	Size
PRIME-XV Human Fibronectin	31002	1 mg
PRIME-XV IS21 Supplement (50X)	91142	10 mL
PS Capture Exosome Flow Cytometry Kit	297-79701	1 Kit
PS Capture Exosome ELISA Kit	298-80601	1 Kit
MagCapture Exosome Isolation Kit PS Ver.2	294-84101	2 Tests
MagCapture Exosome Isolation Kit PS Ver.2	290-84103	10 Tests

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Shenandoah CTGrade GMP Recombinant Proteins

Product Description	Catalog #	Size
CTGrade GMP rh IL-2 _{C126S}	500-01	50 µg 100 µg 1 mg
CTGrade GMP rh SCF	500-02	50 µg 100 µg 1 mg
CTGrade GMP rh FLT-3 Ligand	500-03	50 µg 100 µg 1 mg
CTGrade GMP rh IL-3	500-04	50 µg 100 µg 1 mg
CTGrade GMP rh IL-4	500-05	50 µg 100 µg 1 mg
CTGrade GMP rh IL-6	500-06	50 µg 100 µg 1 mg
CTGrade GMP rh IL-7	500-07	50 µg 100 µg 1 mg
CTGrade GMP rh IL-15	500-08	50 µg 100 µg 1 mg
CTGrade GMP rh IL-21	500-09	50 µg 100 µg 1 mg
CTGrade GMP rh GM-CSF	500-11	50 µg 100 µg 1 mg
CTGrade GMP rh M-CSF	500-12	50 µg 100 µg 1 mg
CTGrade GMP rh EGF	500-14	50 µg 100 µg 1 mg
CTGrade GMP rh IL-10	500-16	50 µg 100 µg 1 mg
CTGrade GMP rh PDGF-AA	500-23	50 µg 100 µg 1 mg
CTGrade GMP rh PDGF-BB	500-25	50 µg 100 µg 1 mg

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Shenandoah Recombinant Proteins

rh - Recombinant Human (100 series)

rm - Recombinant Mouse (200 series)

rr - Recombinant Rat (300 series)

rp - Recombinant Porcine (400 series)

rgp - Recombinant Guinea Pig (400 series)

r - Recombinant Macaque (400 series)

rc - Recombinant Canine (400 series)

re - Recombinant Equine (400 series)

r/h/m - Multi Species (800 series)

Shenandoah Recombinant Human (rh) Proteins (100 Series)

Product Description	Catalog #	Size	Product Description	Catalog #	Size
rh BDNF (AF)	100-01AF	10 µg 100 µg 500 µg 1 mg	rh IL-6 (AF)	100-10AF	5 µg 20 µg 100 µg 500 µg 1 mg
rh GDNF (AF)	100-02AF	10 µg 100 µg 500 µg 1 mg	rh IL-7 (AF)	100-11AF	10 µg 100 µg 500 µg 1 mg
rh M-CSF (AF)	100-03AF	10 µg 100 µg 500 µg 1 mg	rh IL-2 (AF)	100-12AF	10 µg 50 µg 100 µg 500 µg 1 mg
rh SCF (AF)	100-04AF	10 µg 100 µg 500 µg 1 mg	rh MCP-1 / CCL2	100-13	5 µg 20 µg 100 µg 500 µg 1 mg
rh Exodus-2 / CCL21	100-06	5 µg 20 µg 100 µg 500 µg 1 mg	rh IGF-II (AF)	100-14AF	10 µg 50 µg 100 µg 500 µg 1 mg
rh EG-VEGF (AF)	100-07AF	5 µg 20 µg 100 µg 500 µg 1 mg	rh MIP-1 α / CCL3	100-15	5 µg 20 µg 100 µg 500 µg 1 mg
rh GM-CSF (AF)	100-08AF	5 µg 20 µg 100 µg 500 µg 1 mg	rh PDGF-AA (AF)	100-16AF	10 µg 100 µg 500 µg 1 mg
rh IL-4 (AF)	100-09AF	5 µg 20 µg 100 µg 500 µg 1 mg	rh PDGF-AB (AF)	100-17AF	10 µg 100 µg 500 µg 1 mg

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Product Description	Catalog #	Size	Product Description	Catalog #	Size
rh PDGF-BB (AF)	100-18AF	10 µg 100 µg 500 µg 1 mg	rh FGF-basic 147 / FGF-2 (AF)	100-28AF	10 µg 50 µg 100 µg 500 µg 1 mg
rh RANK Ligand (AF)	100-19AF	10 µg 100 µg 500 µg 1 mg	rh FGF-acidic / FGF-1 (AF)	100-29AF	10 µg 50 µg 100 µg 500 µg 1 mg
rh SDF-1α	100-20	10 µg 100 µg 100 µg 500 µg 1 mg	rh Galectin-1 (AF)	100-30AF	10 µg 50 µg 100 µg 500 µg 1 mg
rh FLT-3 Ligand (AF)	100-21AF	10 µg 100 µg 500 µg 1 mg	rh FGF-4 (AF)	100-31AF	10 µg 50 µg 100 µg 500 µg 1 mg
rh Myostatin (AF)	100-22AF	10 µg 100 µg 500 µg 1 mg	rh GRO-α / CXCL1	100-32	5 µg 25 µg 100 µg 500 µg 1 mg
rh Artemin	100-23	5 µg 20 µg 100 µg 500 µg 1 mg	rh NT-4	100-33	5 µg 25 µg 100 µg 500 µg 1 mg
rh BAFF / BlyS (FAF)	100-24AF	5 µg 20 µg 100 µg 500 µg 1 mg	rh IGF-I (AF)	100-34AF	20 µg 100 µg 1 mg 5 mg
rh CD40-Ligand (AF)	100-25AF	10 µg 50 µg 100 µg 500 µg 1 mg	rh TNFR-1	100-35	5 µg 20 µg 100 µg 500 µg 1 mg
rh EGF (AF)	100-26AF	100 µg 500 µg 1 mg 5 mg	rh Chemrin	100-36	5 µg 25 µg 100 µg 500 µg 1 mg
rh BCA-1 / CXCL13	100-27	5 µg 20 µg 100 µg 500 µg 1 mg	rh Leptin (AF)	100-37AF	1 mg 5 mg 10 mg 200 µg

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Product Description	Catalog #	Size	Product Description	Catalog #	Size
rh B-NGF (AF)	100-38AF	5 µg 20 µg 100 µg 500 µg 1 mg	rh Visfatin	100-50	5 µg 25 µg 100 µg 500 µg 1 mg
rh TGF-β 1	100-39	5 µg 20 µg 100 µg 500 µg 1 mg	rh IFN-α 2b	100-52	20 µg 100 µg 500 µg 1 mg 250 µg
rh Growth Hormone (AF)	100-40AF	100 µg 500 µg 1 mg 5 mg 10 mg	rh IFN-α 2a	100-54	20 µg 100 µg 500 µg 1 mg 250 µg
rh Follistatin	100-41	5 µg 20 µg 100 µg 500 µg 1 mg	rh PTN (AF)	100-55AF	5 µg 20 µg 100 µg 500 µg 1 mg
rh TARC / CCL17	100-42	5 µg 20 µg 100 µg 500 µg 1 mg	rh OSM (AF)	100-56AF	10 µg 100 µg 500 µg 1 mg
rh VEGF-165 (AF)	100-44AF	10 µg 100 µg 500 µg 1 mg	rh CNTF (AF)	100-59AF	5 µg 20 µg 100 µg 500 µg 1 mg
rh Prolactin	100-45	10 µg 50 µg 100 µg 500 µg 1 mg	rh CTGF	100-60	5 µg 20 µg 100 µg 500 µg 1 mg
rh NRG1-β (AF)	100-46AF	10 µg 50 µg 100 µg 500 µg 1 mg	rh FGF-22	100-68	5 µg 20 µg 100 µg 500 µg 1 mg
rh LIF (AF)	100-47AF	5 µg 25 µg 100 µg 500 µg 1 mg	rh GDF-5	100-71	10 µg 50 µg 100 µg 500 µg 1 mg
rh IL-35	100-49	10 µg 100 µg	rh G-CSF (AF)	100-72AF	10 µg 100 µg 500 µg 1 mg

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Product Description	Catalog #	Size
rh IFN- γ (AF)	100-77AF	20 μ g 100 μ g 500 μ g 1 mg 250 μ g
rh IL-3 (AF)	100-80AF	10 μ g 100 μ g 500 μ g 1 mg
rh PSP (AF)	100-81AF	10 μ g 100 μ g 500 μ g 1 mg
rh IL-9	100-82	10 μ g 100 μ g 500 μ g 1 mg
rh IL-10 (AF)	100-83AF	10 μ g 100 μ g 500 μ g 1 mg
rh IL-11 (AF)	100-84AF	10 μ g 100 μ g 500 μ g 1 mg
rh IL-13	100-85	10 μ g 100 μ g 500 μ g 1 mg
rh IL-15 (AF)	100-86AF	10 μ g 100 μ g 500 μ g 1 mg
rh IL-17A	100-87	5 μ g 25 μ g 100 μ g 500 μ g 1 mg
rh IL-19 (AF)	100-88AF	10 μ g 100 μ g 500 μ g 1 mg

Product Description	Catalog #	Size
rh IL-20	100-89	10 μ g 100 μ g 500 μ g 1 mg
rh IL-21 (AF)	100-90AF	10 μ g 500 μ g 1 mg
rh IL-22	100-91	10 μ g 100 μ g 500 μ g 1 mg
rh Resistin	100-107	5 μ g 20 μ g 100 μ g 500 μ g 1 mg
rh TNF- α (AF)	100-111AF	10 μ g 50 μ g 100 μ g 500 μ g 1 mg
rh TRAIL	100-115	10 μ g 50 μ g 100 μ g 500 μ g 1 mg
rh VEGF-121 (AF)	100-116AF	10 μ g 100 μ g 500 μ g 1 mg
rh GRO- β / CXCL2	100-123	10 μ g 100 μ g 500 μ g 1 mg
rh IP-10 / CXCL10	100-127	5 μ g 25 μ g 100 μ g 500 μ g 1 mg

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Product Description	Catalog #	Size
rh I-TAC / CXCL11	100-128	5 µg 20 µg 100 µg 500 µg 1 mg
rh MCP-2 / CCL8	100-130	10 µg 100 µg 500 µg 1 mg
rh MCP-3 / CCL7	100-131	10 µg 100 µg 500 µg 1 mg
rh MCP-4 / CCL18	100-132	5 µg 20 µg 100 µg 500 µg 1 mg
rh MIP-1 β / CCL4	100-134	10 µg 100 µg 500 µg 1 mg
rh MIP-3 β / CCL19	100-135	5 µg 20 µg 100 µg 500 µg 1 mg
rh MIP-4 / CCL18	100-136	10 µg 100 µg 500 µg 1 mg
rh RANTES / CCL5	100-138	5 µg 20 µg 100 µg 500 µg 1 mg
rh Omentin (AF)	100-140AF	10 µg 100 µg 500 µg 1 mg
rh Myostatin Propeptide	100-142	5 µg 25 µg 100 µg 500 µg 1 mg

Product Description	Catalog #	Size
rh IL-16	100-144	10 µg 100 µg 500 µg 1 mg
rh IL-33	100-145	10 µg 100 µg 500 µg 1 mg
rh FGF-basic 154 / FGF-2 (AF)	100-146AF	10 µg 50 µg 100 µg 500 µg 1 mg
rh MIP-3 α / CCL20	100-147	5 µg 20 µg 100 µg 500 µg 1 mg
rh FGF-21 (AF)	100-148AF	5 µg 20 µg 100 µg 500 µg 1 mg
rh IL-17E / (IL-25)	100-149	5 µg 25 µg 100 µg 500 µg 1 mg
rh IL-32 α	100-151	10 µg 100 µg 500 µg 1 mg
rh IL-17F (AF)	100-152AF	5 µg 25 µg 100 µg 500 µg 1 mg
rh MIF	100-153	5 µg 25 µg 100 µg 500 µg 1 mg
rh Galectin-3	100-154	10 µg 50 µg 100 µg 500 µg 1 mg

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Product Description	Catalog #	Size
rh ACRP-30 (AF)	100-156AF	5 µg 25 µg 100 µg 500 µg 1 mg
rh RELM-β (AF)	100-160AF	5 µg 25 µg 100 µg 500 µg 1 mg
rh IL-17AF Heterodimer	100-161	5 µg 25 µg 100 µg 500 µg 1 mg
rh EBI3 subunit (IL-27 / IL-35) (AF)	100-162AF	5 µg 20 µg 100 µg 500 µg 1 mg
rh Procalcitonin	100-164	10 µg 100 µg 500 µg 1 mg
rh TSLP	100-165	10 µg 100 µg 500 µg 1 mg
rh IL-1β (AF)	100-167AF	10 µg 100 µg 500 µg 1 mg
rh SHH	100-168	5 µg 25 µg 100 µg 500 µg 1 mg
rh IL-29	100-169	5 µg 20 µg 100 µg 500 µg 1 mg
rh GRO-γ / CXCL3	100-170	10 µg 100 µg 500 µg 1 mg

Product Description	Catalog #	Size
rh GDF-15 (AF)	100-171AF	5 µg 20 µg 100 µg 500 µg 1 mg
rh GDF-15-D mutant	100-172	5 µg 20 µg 100 µg 500 µg 1 mg
rh IL-1α / IL-1F1 (AF)	100-173AF	10 µg 100 µg 500 µg 1 mg
rh Fractalkine / CX3CL1	100-174	5 µg 20 µg 100 µg 500 µg 1 mg
rh IL-8 / CXCL8	100-175	5 µg 25 µg 100 µg 500 µg 1 mg
rh Eotaxin / CCL11	100-178	5 µg 20 µg 100 µg 500 µg 1 mg
rh Eotaxin-3 / CCL26	100-179	5 µg 20 µg 100 µg 500 µg 1 mg
rh HB-EGF (AF)	100-180AF	10 µg 50 µg 100 µg 500 µg 1 mg
rh FGF-10 (AF)	100-183AF	5 µg 25 µg 100 µg 500 µg 1 mg
rh MIG / CXCL9	100-184	5 µg 20 µg 100 µg 500 µg 1 mg

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Product Description	Catalog #	Size
rh ENA 78 / CXCL5	100-185	5 µg 20 µg 100 µg 500 µg 1 mg
rh FGF-7 / KGF (AF)	100-187AF	10 µg 100 µg 500 µg 1 mg
rh IL-5 (AF)	100-191AF	10 µg 100 µg 500 µg 1 mg
rh BD-3	100-192	5 µg 20 µg 100 µg 500 µg 1 mg
rh IL-1RA (AF)	100-195AF	20 µg 100 µg 500 µg 1 mg 250 µg
rh WISP-2 / CTGF-L	100-197AF	5 µg 20 µg 100 µg 500 µg 1 mg
rh PIGF-3 (AF)	100-198AF	5 µg 25 µg 100 µg 500 µg 1 mg
rh FGF-5 (AF)	100-200AF	10 µg 50 µg 100 µg 500 µg 1 mg
rh FGF-6 (AF)	100-201AF	5 µg 25 µg 100 µg 500 µg 1 mg

Product Description	Catalog #	Size
rh IL-31 (AF)	100-204AF	5 µg 25 µg 100 µg 500 µg 1 mg
rh Amphiregulin (AF)	100-206AF	10 µg 50 µg 100 µg 500 µg 1 mg
rh R-Spondin-1	100-208	5 µg 25 µg 100 µg 500 µg 1 mg
rh TGF-α (AF)	100-209AF	25 µg 100 µg 500 µg 1 mg 250 µg
rh NAP-2 / CXCL7	100-210	5 µg 25 µg 100 µg 500 µg 1 mg
rh BMP-4	100-212	5 µg 20 µg 100 µg 500 µg 1 mg
rh IL-34	100-220	10 µg 100 µg 500 µg 1 mg
rh IL-2 _{C126S} (AF)	100-222AF	10 µg 50 µg 100 µg 1 mg

Shenandoah Recombinant Mouse (rm) Proteins (200 Series)

Product Description	Catalog #	Size	Product Description	Catalog #	Size
rm IL-3 (AF)	200-01AF	10 µg 100 µg 500 µg 1 mg	rm FGF-basic / FGF-2 (AF)	200-12AF	10 µg 50 µg 100 µg 500 µg 1 mg
rm IL-6 (AF)	200-02AF	10 µg 100 µg 500 µg 1 mg	rm FGF-9 (AF)	200-13AF	10 µg 100 µg 500 µg 1 mg
rm IL-7 (AF)	200-03AF	10 µg 100 µg 500 µg 1 mg	rm G-CSF	200-14	10 µg 100 µg 500 µg 1 mg
rm RANK Ligand (AF)	200-04AF	10 µg 100 µg 500 µg 1 mg	rm GM-CSF (AF)	200-15AF	5 µg 20 µg 100 µg 500 µg 1 mg
rm IGF-I	200-05	10 µg 50 µg 100 µg 500 µg 1 mg	rm IFN-γ (AF)	200-16AF	20 µg 100 µg 500 µg 1 mg 250 µg
rm FLT-3 Ligand (AF)	200-06AF	10 µg 100 µg 500 µg 1 mg	rm IL-2 (AF)	200-17AF	5 µg 20 µg 100 µg 500 µg 1 mg
rm M-CSF (AF)	200-08AF	10 µg 100 µg 500 µg 1 mg	rm IL-4 (AF)	200-18AF	5 µg 20 µg 100 µg 500 µg 1 mg
rm SCF (AF)	200-09AF	10 µg 100 µg 500 µg 1 mg	rm IL-5 (AF)	200-20AF	5 µg 25 µg 100 µg 500 µg 1 mg
rm β-NGF (AF)	200-11AF	5 µg 20 µg 100 µg 500 µg 1 mg	rm IL-13	200-22	10 µg 100 µg 500 µg 1 mg

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Product Description	Catalog #	Size
rm GRO- α / CXCL1	200-23	5 μ g 20 μ g 100 μ g 500 μ g 1 mg
rm Follistatin	200-24	5 μ g 20 μ g 100 μ g 500 μ g 1 mg
rm IL-12	200-25	10 μ g 100 μ g 500 μ g 1 mg
rm Leptin (AF)	200-26AF	1 mg 5 mg 10 mg 200 μ g
rm RELM- α	200-28	5 μ g 25 μ g 100 μ g 500 μ g 1 mg
rm Resistin	200-30	5 μ g 25 μ g 100 μ g 500 μ g 1 mg
rm TNF- α (AF)	200-31AF	5 μ g 20 μ g 100 μ g 500 μ g 1 mg
rm TPO (AF)	200-32AF	10 μ g 100 μ g 500 μ g 1 mg
rm LIF (AF)	200-33AF	5 μ g 20 μ g 100 μ g 500 μ g 1 mg
rm VEGF-165	200-34	10 μ g 100 μ g 500 μ g 1 mg

Product Description	Catalog #	Size
rm Exodus-2 / CCL21	200-35	5 μ g 20 μ g 100 μ g 500 μ g 1 mg
rm IL-33 (AF)	200-36AF	10 μ g 100 μ g 500 μ g 1 mg
rm GDNF (AF)	200-37AF	10 μ g 100 μ g 500 μ g 1 mg
rm IP-10 / CXCL10	200-38	5 μ g 25 μ g 100 μ g 500 μ g 1 mg
rm MCP-1 / CCL2	200-39	10 μ g 100 μ g 500 μ g 1 mg
rm MCP-3 / CCL7	200-40	10 μ g 100 μ g 500 μ g 1 mg
rm MIP-1 α / CCL3	200-42	10 μ g 100 μ g 500 μ g 1 mg
rm MIP-1 β / CCL4	200-43	10 μ g 100 μ g 500 μ g 1 mg
rm MIP-3 β / CCL19	200-44	5 μ g 20 μ g 100 μ g 500 μ g 1 mg
rm SDF-1 α / CXCL12	200-46	10 μ g 100 μ g 500 μ g 1 mg

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Product Description	Catalog #	Size
rm IL-16	200-49	10 µg 100 µg 500 µg 1 mg
rm IL-27/p28 subunit (IL-27)	200-50AF	10 µg 100 µg 500 µg 1 mg
rm MIP-3 α / CCL20	200-51	5 µg 20 µg 100 µg 500 µg 1 mg
rm VEGF-120	200-52	10 µg 100 µg 500 µg 1 mg
rm EGF (AF)	200-53AF	100 µg 500 µg 1 mg 5 mg
rm PDGF-AA	200-54	10 µg 100 µg 500 µg 1 mg
rm SHH	200-55	5 µg 25 µg 100 µg 500 µg 1 mg
rm EBI3 subunit (IL-27 / IL-35)	200-57	10 µg 100 µg 500 µg 1 mg
rm PDGF-BB	200-58	10 µg 100 µg 500 µg 1 mg
rm IL-17A (AF)	200-59AF	5 µg 25 µg 100 µg 500 µg 1 mg

Product Description	Catalog #	Size
rm IL-17E (AF)	200-60AF	5 µg 25 µg 100 µg 500 µg 1 mg
rm IL-17AF Heterodimer	200-61	5 µg 25 µg 100 µg 500 µg 1 mg
rm IL-17F (AF)	200-62AF	5 µg 25 µg 100 µg 500 µg 1 mg
rm MCP-2 / CCL8	200-63	5 µg 20 µg 100 µg 500 µg 1 mg
rm IL-11 (AF)	200-64AF	10 µg 100 µg 500 µg 1 mg
rm SDF-1 β / CXCL12	200-67	10 µg 100 µg 500 µg 1 mg
rm IL-1 β	200-68	10 µg 100 µg 500 µg 1 mg
rm RELM-β	200-69	5 µg 25 µg 100 µg 500 µg 1 mg
rm IL-21 (AF)	200-70AF	10 µg 100 µg 500 µg 1 mg
rm IL-31 (AF)	200-71AF	10 µg 100 µg 500 µg 1 mg

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Product Description	Catalog #	Size
rm IL-19 (AF)	200-75AF	10 µg 100 µg 500 µg 1 mg
rm IL-22 (AF)	200-77AF	10 µg 100 µg 500 µg 1 mg
rm MIF (AF)	200-78AF	5 µg 25 µg 100 µg 500 µg 1 mg
rm MIP-2 / CXCL12	200-80	5 µg 20 µg 100 µg 500 µg 1 mg
rm IL-36 γ (AF)	200-81AF	5 µg 20 µg 100 µg 500 µg 1 mg

Product Description	Catalog #	Size
rm IL-10 (AF)	200-84AF	10 µg 100 µg 500 µg 1 mg
rm IGF-II (AF)	200-86AF	10 µg 50 µg 100 µg 500 µg 1 mg
rm IL-1α / IL-1F1 (AF)	200-87AF	5 µg 20 µg 100 µg 500 µg 1 mg
rm RELM γ (AF)	200-89AF	5 µg 25 µg 100 µg 500 µg 1 mg

Shenandoah Recombinant Rat (rr) Proteins (300 Series)

Product Description	Catalog #	Size	Product Description	Catalog #	Size
rr IGF-I	300-01	10 µg 50 µg 100 µg 500 µg 1 mg	rr Leptin	300-14	1 mg 5 mg 10 mg 200 µg
rr FGF-basic / FGF-2 (AF)	300-02AF	10 µg 50 µg 100 µg 500 µg 1 mg	rr TNF-α	300-18	5 µg 20 µg 100 µg 500 µg 1 mg
rr GM-CSF	300-03	5 µg 20 µg 100 µg 500 µg 1 mg	rr MCP-1 / CCL2	300-22	10 µg 100 µg 500 µg 1 mg
rr IFN-γ	300-04	20 µg 100 µg 500 µg 1 mg 250 µg	rr MIP-1 α / CCL3	300-23	5 µg 20 µg 100 µg 500 µg 1 mg
rr EGF	300-05	20 µg 100 µg 500 µg 1 mg 250 µg	rr IL-17A	300-24	5 µg 25 µg 100 µg 500 µg 1 mg
rr MCP-3 / CCL7	300-07	10 µg 100 µg 500 µg 1 mg	rr FGF-9	300-27	10 µg 100 µg 500 µg 1 mg
rr IL-6 (AF)	300-09AF	10 µg 100 µg 500 µg 1 mg	rr IL-17A	300-28	5 µg 25 µg 100 µg 500 µg 1 mg
rr GDNF (AF)	300-10AF	10 µg 100 µg 500 µg 1 mg	rr IL-17AF Heterodimer	300-29	5 µg 25 µg 100 µg 500 µg 1 mg
rr Prolactin (AF)	300-11AF	10 µg 50 µg 100 µg 500 µg 1 mg	rr IL-1 β	300-30	10 µg 100 µg 500 µg 1 mg

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Product Description	Catalog #	Size
rr VEGF-165 (AF)	300-31AF	10 µg 100 µg 500 µg 1 mg
rr SCF	300-32	10 µg 100 µg 500 µg 1 mg
rr M-CSF (AF)	300-33AF	10 µg 100 µg 500 µg 1 mg
rr IL-10 (AF)	300-35AF	5 µg 20 µg 100 µg 500 µg 1 mg

Product Description	Catalog #	Size
rr IL-2 (AF)	300-38AF	20 µg 100 µg 500 µg 1 mg
rr IL-3 β (AF)	300-39AF	5 µg 25 µg 100 µg 500 µg 1 mg
rr SHH (AF)	300-40AF	5 µg 25 µg 100 µg 500 µg 1 mg

Shenandoah Recombinant Porcine, Guinea Pig, Macaque, Canine, and Equine Proteins (400 Series)

rp - Recombinant Porcine

rc - Recombinant Canine

rgp - Recombinant Guinea Pig

re - Recombinant Equine

r - Recombinant Macaque

Product Description	Catalog #	Size	Product Description	Catalog #	Size
rgp IP-10 / CXCL10	400-02	5 µg 25 µg 100 µg 500 µg 1 mg	rc IL-2 (AF)	400-11AF	5 µg 25 µg 100 µg 500 µg 1 mg
rp IL-8 / CXCL8 (AF)	400-03AF	5 µg 20 µg 100 µg 500 µg 1 mg	rp GM-CSF (AF)	400-12AF	5 µg 20 µg 100 µg 500 µg 1 mg
r EBI3 subunit (IL-27 / IL-35)	400-07	20 µg 50 µg 500 µg 1 mg 250 µg	rc GM-CSF (AF)	400-14AF	5 µg 20 µg 100 µg 500 µg 1 mg
rp FLT-3 Ligand (AF)	400-08AF	5 µg 25 µg 100 µg 500 µg 1 mg	rp IL-2 (AF)	400-15AF	5 µg 20 µg 100 µg 500 µg 1 mg
rc IL-4 (AF)	400-09AF	5 µg 25 µg 100 µg 500 µg 1 mg	re PDGF-BB (AF)	400-17AF	5 µg 20 µg 100 µg 500 µg 1 mg
rp IL-4 (AF)	400-10AF	5 µg 20 µg 100 µg 500 µg 1 mg	re VEGF-165 (AF)	400-18AF	5 µg 20 µg 100 µg 500 µg 1 mg

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Shenandoah Recombinant Multi Species (rh/m/r) Proteins (800 Series)

rh/m/r - Recombinant Human / Mouse / Rat

rh - Recombinant Human

rh/m - Recombinant Human / Mouse

rm/r - Recombinant Mouse / Rat

rh/f - Recombinant Human / Feline

Product Description	Catalog #	Size
rh/m/r Activin-A (AF)	800-01AF	10 µg 100 µg 500 µg 1 mg
rh/m/r BMP-2 (AF)	800-02AF	10 µg 100 µg 500 µg 1 mg
rh/m FGF-8 (AF)	800-03AF	5 µg 25 µg 100 µg 500 µg 1 mg
rh/m/r GDF-11 (AF)	800-04AF	5 µg 20 µg 100 µg 500 µg 1 mg
rh/m IHH (AF)	800-05AF	5 µg 25 µg 100 µg 500 µg 1 mg
rh/m NT-3 (AF)	800-06AF	10 µg 100 µg 500 µg 1 mg

Product Description	Catalog #	Size
rh/m TGF-β 3 (AF)	800-07AF	10 µg 100 µg 500 µg 1 mg
rm/r RANTES / CCL5	800-08	5 µg 20 µg 100 µg 500 µg 1 mg
rh/f SDF-1 β	800-09	10 µg 100 µg 500 µg 1 mg
rm/r FGF-acidic / FGF-1	800-10	10 µg 50 µg 100 µg 500 µg 1 mg
rh/m TGF-β 3 (AF)	800-11AF	10 µg 100 µg 500 µg 1 mg

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Shenandoah Recombinant Protein Bundles

Product Description	Catalog #	Size
Human Monocyte/DC PB	PB-500-01	100 µg of rh IL-4 100 µg of rh GM-CSF
Mouse Monocyte/DC PB	PB-500-02	100 µg of rh IL-4 100 µg of rm GM-CSF
Human HSC Expansion PB	PB-500-03	10 µg of rh SCF 10 µg (2 x 5 µg) of rh TPO (CHO-derived) 10 µg of rh FLT-3 Ligand
Mouse HSC Expansion PB	PB-500-04	10 µg of rm SCF 10 µg of rm TPO 10 µg of rm FLT-3 Ligand
Human HPC Expansion PB	PB-500-07	10 µg rh SCF 10 µg rh FLT-3 Ligand 20 µg rh IL-6 10 µg rh IL-3
Mouse HPC Expansion PB	PB-500-08	10 µg of rm SCF 10 µg of rm FLT-3 Ligand 10 µg of rm IL-6 10 µg of rm IL-3
Human T REG Cell Polarizing PB	PB-500-09	1 mg of rh IL-2 5 µg of rh TGF-β 1
Mouse T REG Cell Polarizing PB	PB-500-10	100 µg of rm IL-2 5 µg of rh TGF-β 1
Human TH17 Cell Polarizing PB	PB-500-11	20 µg of rh IL-6 5 µg of rh TGF-β 1
Human TH17 Cell Polarizing PLUS PB	PB-500-12	20 µg of rh IL-6 5 µg of rh TGF-β 1 10 µg of rh IL-1β 100 µg of rh IL-21
Mouse TH17 Cell Polarizing PB	PB-500-13	2 x 10 µg of rm IL-6 5 µg of rh TGF-β 1
Mouse TH17 Cell Polarizing PLUS PB	PB-500-14	2 x 10 µg of rm IL-6 5 µg of rh TGF-β 1 10 µg of rm IL-1β 100 µg of rm IL-21
Human TH9 Cell Polarizing PB	PB-500-15	20 µg of rh IL-4 5 µg of rh TGF-β 1
Mouse TH9 Cell Polarizing PB	PB-500-16	20 µg of rm IL-4 5 µg of rh TGF-β 1
Human Neural SCE PB	PB-500-17	100 µg of rh EGF 100 µg of rh FGF-basic 154 / FGF-2
Mouse Neural SCE PB	PB-500-18	100 µg of rm EGF 100 µg of rm FGF-basic / FGF-2
Human Glioma Culture PB	PB-500-19	2 x 100 µg of rh EGF 500 µg of rh FGF-basic 154 / FGF-2 100 µg of rh PDGF-AA 100 µg of rh PDGF-BB
Mouse Glioma Culture PB	PB-500-20	2x 100 µg of rm EGF 200 µg of rm FGF-basic / FGF-2 100 µg of rm PDGF-AA 100 µg of rm PDGF-BB

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