

GMP Grade HumanKine® Cytokines and Growth Factors

Active, Stable, Robust, Scalable



To facilitate a seamless transition from pre-clinical to clinical studies, both Research Grade and GMP Grade HumanKine cytokines and growth factors are manufactured through the same production process, minimizing variability in performance between Research Grade and GMP Grade products.

Target	Activity (EC50)	Purity
Activin A	0.5-3.5 ng/mL	>95%
BMP-2	7.5-37.5 ng/mL	>95%
BMP-4	1.5-9 ng/mL	>95%
Cystatin C	0.5-2.6 µg/mL	>95%
FGFbasic-TS	0.07-0.4 ng/mL	>95%
FLT3 Ligand	0.4-3.0 ng/mL	>95%
G-CSF	0.009-0.05 ng/mL	>95%
GM-CSF	0.08-0.8 ng/mL	>95%
HSA	N/A	>95%
IFN gamma	0.02-0.14 ng/mL	>95%
IGF-I	2-14 ng/mL	>95%
IL-2	0.05-0.35 ng/mL	>95%
IL-3	0.4-2.0 ng/mL	>95%

Target	Activity (EC50)	Purity
IL-4	0.07-0.4 ng/mL	>95%
IL-10	0.18-2.0 ng/mL	>95%
IL-12	1-5 ng/mL	>95%
IL-15	3-17 ng/mL	>95%
IL-28A	0.01-0.06 ng/mL	>95%
M-CSF	0.7-4.0 ng/mL	>95%
Noggin	3-15 ng/mL	>95%
PDGFbb	0.3-3 ng/mL	>95%
TGF beta 2	0.018-0.18 ng/mL	>95%
TGF beta 3	0.15-0.75 ng/mL	>95%
TNF alpha	0.002-0.026 ng/mL	>95%
VEGF165	0.3-3.75 ng/mL	>95%
Wnt3A	25-125 ng/mL	>95%

Browse the full product range online at ptglab.com