

# GMP Grade HumanKine® Cytokines and Growth Factors

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.

Although Research Grade and GMP Grade products go through the same production process, GMP Grade products undergo a more rigorous quality check and there is more extensive documentation for traceability and transparency for regulatory requirements.



Target	Cat no.	Purity	Activity (EC50)	Source
Activin A	HZ-1138-GMP	>95%	0.5-3.5 ng/mL	HEK293
BMP-2	HZ-1128-GMP	>95%	7.0-38 ng/mL	HEK293
BMP-4	HZ-1045-GMP	>95%	1.5-9 ng/mL	HEK293
FGF Basic-TS	HZ-1285-GMP	>95%	0.05-3.0 ng/mL	HEK293
FLT3 Ligand	HZ-1151-GMP	>95%	0.4-3 ng/mL	HEK293
G-CSF	HZ-1207-GMP	>95%	0.009-0.05 ng/mL	HEK293
GM-CSF	HZ-1002-GMP	>95%	0.1-0.8 ng/mL	HEK293
HSAa	HZ-3001-GMP	>95%	N/A	HEK293
IL-4	HZ-1004-GMP	>95%	0.05-3.0 ng/mL	HEK293
IL-28A	HZ-1235-GMP	>95%	0.01-0.06 ng/mL	HEK293
Noggin	HZ-1118-GMP	>95%	3-15 ng/mL	HEK293
PDGFbb	HZ-1308-GMP	>95%	0.5-3 ng/mL	HEK293
TGF beta 2	HZ-1092-GMP	>95%	0.05-0.27 ng/mL	HEK293
TGF beta 3	HZ-1090-GMP	>95%	0.06-0.5 ng/mL	HEK293
VEGF165	HZ-1038-GMP	>95%	0.3-1.5 ng/mL	HEK293
Wnt3a	HZ-1296-GMP	>95%	25-125 ng/mL	HEK293

Browse the full product range online at [ptglab.com](https://ptglab.com)