

GMP Grade available? ✓  
 HEK293 human-cell expressed? ✓  
 Authentic human proteins? ✓

Native human folding & glycosylation? ✓  
 Animal, xeno, endotoxin and tag-free? ✓  
 High activity cytokines & growth factors? ✓

High purity? ✓  
 Manufactured in the USA? ✓  
 Expensive? ✗



### BMP, Wnt & TGF beta family

Product	Cat no.	Activity	Purity	Source
Activin A	HZ-1138	0.5-3.5 ng/mL	0.5-3.5 ng/mL	HEK293
BMP-2	HZ-1128	7.5-37.5 ng/mL	7.5-37.5 ng/mL	HEK293
BMP-4	HZ-1045	1.5-9 ng/mL	1.5-9 ng/mL	HEK293
BMP-7	HZ-1229	3.6-18.5 ng/mL	3.6-18.5 ng/mL	HEK293
Cystatin C	HZ-1211	≤ 5 μM IC50	≤ 5 μM IC50	HEK293
DKK-1	HZ-1314	7-70 ng/mL	7-70 ng/mL	HEK293
GDNF	HZ-1311	2.5-12.5 ng/mL	2.5-12.5 ng/mL	HEK293
LEFTY-1	HZ-1109	≤ 40 ng/mL	≤ 40 ng/mL	HEK293
Noggin	HZ-1118	1.6-15 ng/mL	1.6-15 ng/mL	HEK293
Sonic Hedgehog-SHH	HZ-1306	1.4-7.5 ng/mL	1.4-7.5 ng/mL	HEK293
TGF beta 1	HZ-1011	0.01-0.17 ng/mL	0.01-0.17 ng/mL	HEK293
TGF beta 2	HZ-1092	0.018-0.18 ng/mL	0.018-0.18 ng/mL	HEK293
TGF beta 3	HZ-1090	0.14-0.75 ng/mL	0.14-0.75 ng/mL	HEK293
Wnt3A	HZ-1296	2.3-16.7 ng/mL	2.3-16.7 ng/mL	HEK293

### CSFs

Product	Cat no.	Activity	Purity	Source
G-CSF	HZ-1207	0.009-0.5 ng/mL	>95%	HEK293
GM-CSF	HZ-1002	0.08-0.8 ng/mL	>95%	HEK293
M-CSF	HZ-1192	1-11 ng/mL	>95% <sub>mL</sub>	HEK293

### Interleukins, IFNs & TNFs

Product	Cat no.	Activity	Purity	Source
IFN alpha 2A	HZ-1066	0.03-0.15 ng/mL	>95%	HEK293
IFN alpha 2B	HZ-1072	0.035-0.175 ng/mL	>95%	HEK293
IFN beta	HZ-1298	≤ 0.1 ng/mL	>95%	HEK293
IFN gamma	HZ-1301	0.02-0.14 ng/mL	>95%	HEK293
IL-1 alpha	HZ-1320	0.075-0.375 ng/mL	>95%	HEK293
IL-1 beta	HZ-1164	0.01-0.05 ng/mL	>95%	HEK293
IL-2	HZ-1015	≤ 5 ng/mL	>95%	HEK293
IL-3	HZ-1074	0.4-2 ng/mL	>95%	HEK293
IL-4	HZ-1004	0.07-0.4 ng/mL	>95%	HEK293
IL-5	HZ-1324	On request	>95%	HEK293
IL-6	HZ-1019	0.064-0.43 ng/mL	>95%	HEK293
IL-7	HZ-1281	0.1-0.5 ng/mL	>95%	HEK293
IL-8	HZ-1318	On request	>95%	HEK293
IL-9	HZ-1240	0.025-0.125 ng/mL	>95%	HEK293
IL-10	HZ-1145	0.18-2 ng/mL	>95%	HEK293
IL-12	HZ-1256	1-5 ng/mL	>95%	HEK293
IL-12 beta	HZ-1321	On request	>95%	HEK293
IL-15	HZ-1323	6-30 ng/mL	>95%	HEK293
IL-17A	HZ-1113	≤ 2 ng/mL	>95%	HEK293
IL-17F	HZ-1116	≤ 10 ng/mL	>95%	HEK293
IL-21	HZ-1319	0.2-1 ng/mL	>95%	HEK293
IL-23	HZ-1254	1.25-6.5 ng/mL	>95%	HEK293
IL-27	HZ-1275	3-16 ng/mL	>95%	HEK293
IL-28A	HZ-1235	0.01-0.08 ng/mL	>95%	HEK293
IL-28B	HZ-1245	0.07-0.35 ng/mL	>95%	HEK293
IL-29	HZ-1156	0.12-0.6 ng/mL	>95%	HEK293
IL-34	HZ-1316	On request	>95%	HEK293
LIF	HZ-1292	0.135-0.675 ng/mL	>95%	HEK293
OSM	HZ-1030	0.4-2.0 ng/mL	>95%	HEK293
TNF alpha	HZ-1014	0.002-0.026 ng/mL	>95%	HEK293

### Growth Factors

Product	Cat no.	Activity	Purity	Source
beta NGF	HZ-1222	0.5-3.0 ng/mL	>95%	HEK293
EPO	HZ-1168	0.28-1.4 ng/mL	>95%	HEK293
FGF Basic-TS	HZ-1285	0.05-0.3 ng/mL	>95%	HEK293
FGF-4	HZ-1218	0.6-3.4 ng/mL	>95%	HEK293
FGF-7 (KGF)	HZ-1100	0.17-3.4 ng/mL	>95%	HEK293
FGF-8b	HZ-1103	0.7-4 ng/mL	>95%	HEK293
FLT3 Ligand	HZ-1151	0.4-3.0 ng/mL	>95%	HEK293
HGF	HZ-1084	1-15 ng/mL	>95%	HEK293
HGH	HZ-1007	0.05-0.26 ng/mL	>95%	HEK293
IGF-1	HZ-1322	14-70 ng/mL	>95%	HEK293
PDGFaa	HZ-1215	0.8-10 ng/mL	>95%	HEK293
PDGFbb	HZ-1308	0.3-3.0 ng/mL	>95%	HEK293
Pleiotrophin-PTN	HZ-1278	On request	>95%	HEK293
proIGF-II	HZ-1161	12-80 ng/mL	>95%	HEK293
SCF	HZ-1024	1.7-8.5 ng/mL	>95%	HEK293
Thrombin-Coagulation Factor II	HZ-3010	On request	>95%	HEK293
Thrombopoietin	HZ-1248	1-7 ng/mL	>95%	HEK293
VEGF121	HZ-1204	2.7-14 ng/mL	>95%	HEK293
VEGF165	HZ-1038	0.3-3.75 ng/mL	>95%	HEK293

### Serum Proteins

Product	Cat no.	Activity	Purity	Source
HSA	HZ-3001	On request	>95%	HEK293

\*Additional product information on next side.

# HumanKine® Cytokines and Growth Factors



**Scan here**  
Discover the HumanKine advantage and full product offering.



**Scan here**  
Inquire for GMP grade

Product	Cat no.	Activity (EC50)	Purity	Source
Activin A	HZ-1138	0.5-3.5 ng/mL	>95%	HEK293
beta NGF	HZ-1222	0.5-3.0 ng/mL	>95%	HEK293
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FGF-7 (KGF)	HZ-1100	0.17-3.4 ng/mL	>95%	HEK293
FGF-8b	HZ-1103	0.7-4 ng/mL	>95%	HEK293
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FLT3 Ligand	HZ-1151	0.4-3.0 ng/mL	>95%	HEK293
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GDNF	HZ-1311	2.5-12.5 ng/mL	>95%	HEK293
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HGF	HZ-1084	1-15 ng/mL	>95%	HEK293
HGH	HZ-1007	0.05-0.26 ng/mL	>95%	HEK293
HSA	HZ-3001	On request	>95%	HEK293
IFN alpha 2A	HZ-1066	0.03-0.15 ng/mL	>95%	HEK293
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IFN gamma	HZ-1301	0.02-0.14 ng/mL	>95%	HEK293
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IL-1 beta	HZ-1164	0.01-0.05 ng/mL	>95%	HEK293
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IL-3	HZ-1074	0.4-2 ng/mL	>95%	HEK293
IL-4	HZ-1004	0.07-0.4 ng/mL	>95%	HEK293
IL-5	HZ-1324	On request	>95%	HEK293
IL-6	HZ-1019	0.064-0.43 ng/mL	>95%	HEK293
IL-7	HZ-1281	0.1-0.5 ng/mL	>95%	HEK293
IL-8	HZ-1318	On Request	>95%	HEK293
IL-9	HZ-1240	0.025-0.125 ng/mL	>95%	HEK293

Product	Cat no.	Activity (EC50)	Purity	Source
IL-10	HZ-1145	0.18-2 ng/mL	>95%	HEK293
IL-12	HZ-1256	1-5 ng/mL	>95%	HEK293
IL-12 beta	HZ-1321	On request	>95%	HEK293
IL-15	HZ-1323	6-30 ng/mL	>95%	HEK293
IL-17A	HZ-1113	0.24-1.2 ng/mL	>95%	HEK293
IL-17F	HZ-1116	4.5-22.5 ng/mL	>95%	HEK293
IL-21	HZ-1319	0.2-1 ng/mL	>95%	HEK293
IL-23	HZ-1254	1.25-6.5 ng/mL	>95%	HEK293
IL-27	HZ-1275	3-16 ng/mL	>95%	HEK293
IL-28A	HZ-1235	0.01-0.08 ng/mL	>95%	HEK293
IL-28B	HZ-1245	0.07-0.35 ng/mL	>95%	HEK293
IL-29	HZ-1156	0.12-0.6 ng/mL	>95%	HEK293
IL-34	HZ-1316	On request	>95%	HEK293
LEFTY-1	HZ-1109	0.3-1.6 ug/mL	>95%	HEK293
LIF	HZ-1292	0.135-0.675 ng/mL	>95%	HEK293
M-CSF	HZ-1192	1-11 ng/mL	>95%	HEK293
Noggin	HZ-1118	1.6-15 ng/mL	>95%	HEK293
OSM	HZ-1030	0.4-2 ng/mL	>95%	HEK293
PDGFaa	HZ-1215	0.8-10 ng/mL	>95%	HEK293
PDGFbb	HZ-1308	0.3-3.0 ng/mL	>95%	HEK293
Pleiotrophin-PTN	HZ-1278	On request	>95%	HEK293
prolGF-II	HZ-1161	12-80 ng/mL	>95%	HEK293
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Sonic Hedgehog-SHH	HZ-1306	1.4-7.5 ng/mL	>90%	HEK293
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TGF beta 2	HZ-1092	0.018-0.18 ng/mL	>95%	HEK293
TGF beta 3	HZ-1090	0.14-0.75 ng/mL	>95%	HEK293
Thrombin-Coagulation Factor II	HZ-3010	On request	>95%	HEK293
Thrombopoietin	HZ-1248	1-7 ng/mL	>95%	HEK293
TNF alpha	HZ-1014	0.002-0.026 ng/mL	>95%	HEK293
VEGF121	HZ-1204	2.7-14 ng/mL	>95%	HEK293
VEGF165	HZ-1038	0.3-3.75 ng/mL	>95%	HEK293
Wnt3A	HZ-1296	2.3-16.7 ng/mL	>90%	HEK293

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