bio-techne®

Redefining Industry Standards

WITH NEXT GENERATION Flt-3 Ligand

Renowned R&D Systems™ quality with Bio-Techne Innovation

For almost 40 years, R&D Systems™, a Bio-Techne brand, has strived to offer high quality proteins to enable your scientific research. Over the years, we continuously improve by incorporating scientific advancements in protein purification and cell culture.

Rather than just meeting industry standards, we're on a mission to define them. Our modernized methods safeguard your access to high-quality recombinant proteins throughout your research journey.

Our **next generation** of cytokines and growth factors merges our renowned quality and innovation, offering you an unparalleled combination of dependability and stability of supply. These best-in-class proteins ensure your research remains at the forefront of progress. Consider our **Next Generation Flt-3 Ligand** (Catalog # 308-FKHB) and explore the key benefits!

Key Benefits of Our Next Generation Flt-3 Ligand Protein

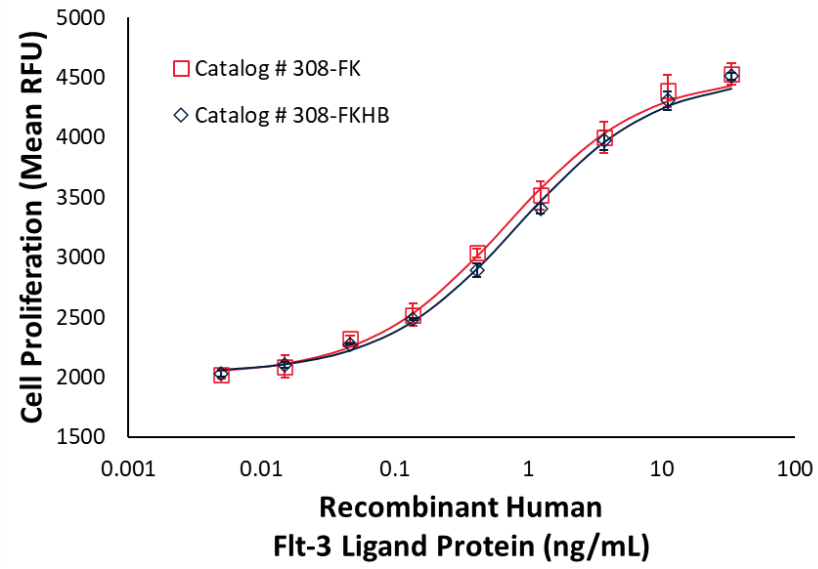
Increased Supply: Improved manufacturing processes allow for greater scalability & robust supply chain.

Equivalent Bioactivity: Our next generation Flt-3 Ligand protein displays the same activity as our legacy protein.

Time & Cost-Savings: Cost-effective proteins with larger lot sizes, allowing for less time spent on bridging studies.

Learn more | bio-techne.com/proteins/reagents/nextgenerationproteins

Figure 1: Analysis of Next Generation Flt-3 Ligand Protein Bioactivity



New Recombinant Human Flt-3 Ligand Protein Activity. Sf21-derived RUO (Catalog # 308-FK) and HEK293-derived RUO (Catalog # 308-FKHB) Recombinant Human Flt-3 Ligand were measured in a cell proliferation assay using the cell proliferation of BaF3 mouse pro-B cell line transfected with mouse Flt-3. Both legacy and new Flt-3 ligand proteins display similar activity.

Table: Comparison of Legacy and Next Generation Recombinant Human Flt-3 Ligand Proteins

Specifications	308 FK (Legacy)	308 FKHB (Next Generation)
Activity	Measured in a cell proliferation assay using BaF3 mouse pro-B cells transfected with mouse Flt-3. The ED_{50} for this effect is 0.2-1 ng/mL.	Measured in a cell proliferation assay using BaF3 mouse pro-B cells transfected with mouse Flt-3. The ED_{50} for this effect is 0.15-1.5 ng/mL.
Source	*Spodoptera frugiperda, Sf* 21 (baculovirus)-derived human Flt-3 Ligand/FLT3L protein Thr27-Pro185	Human embryonic kidney cell, HEK293-derived human Flt-3 Ligand/FLT3L protein Thr27-Pro185
Purity	>97%, by SDS-PAGE	>95%, by SDS-PAGE
N-terminal Sequence	Thr27	Thr27
Predicted Molecular Mass	17.5 kDa	18 kDa
Pack Sizes	5,100, 250 µg, 1 mg	10, 50, 250 µg, 1 mg
Formulation	Lyophilized from a 0.2 µm filtered solution in Acetonitrile and TFA.	Lyophilized from a 0.2 µm filtered solution in PBS with Trehalose.
Endotoxin	<0.10 EU per 1 µg of the protein by the LAL method.	<0.10 EU per 1 µg of the protein by the LAL method.

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