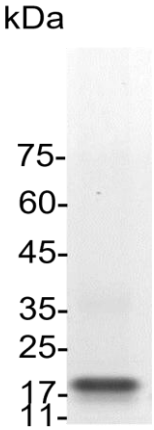
PRODUCT INFORMATION

GMP® Flt-3 Ligand (Fms-related tyrosine kinase-3 ligand), Human

v. 250301

Catalog number	C01085-GMP-1000
Package	1 mg
Description	Fms-related tyrosine kinase-3 ligand (Flt-3 Ligand) is a protein which in humans is encoded by the FLT3LG gene. Flt-3 ligand has a tyrosine-protein kinase activity & a growth factor that stimulate the proliferation of hematopoietic progenitor cells of both lymphoid and myeloid origin. Flt3-Ligand synergizes with other CSFs and interleukins to induce growth and differentiation.
Expression System	*Escherichia coli*
Species of Origin	Human
Affinity Tag	His Tag (C-term)
Sequence	Thr27-Ala181
Endotoxin level	<0.05 EU per 1 μg of the protein by the LAL method.
Activity	Measure by its ability to induce proliferation in BaF3 cells transfected with mouse Flt-3. The ED_{50} for this effect is <0.8 ng/mL. The specific activity of recombinant human Flt-3 Ligand is > 1.5 x 10^6 IU/mg.
Purity	>95% as determined by SDS-PAGE analysis.
Mycoplasma	Not detected
Form	Lyophilized
Storage Buffer	Lyophilized from a 0.2 μm filtered solution of PBS, pH 8.0.
Reconstitution	It is recommended to reconstitute the lyophilized protein in sterile H_2O to a concentration not less than 0.5 mg/mL and incubate the stock solution for at least 20 min to ensure sufficient re-dissolved.
Stability & Storage	This product is stable after storage at: • -20°C for 12 months in lyophilized state from date of receipt. • -20°C or -80°C for 1 month under sterile conditions after reconstitution. Avoid repeated freeze/thaw cycles.
Specification	Croyez GMP® recombinant proteins are manufactured in ISO 13485:2016 and GMP-certified facility. The processes include:

	• Animal-free reagent and laboratory • Manufactured and tested under GMP guideline • Testing and traceability of raw material • Records of the maintenance and equipment calibration • Personnel training records • Batch-to-batch consistency • Documentation of QA control and process changes • Manufactured and tested under an ISO 13485:2016 certified quality management system • Stability monitor of product shelf-life
Reference	1. Solanilla A. et al. (2000) Leukemia.14(1):153-62. 2. Stirewalt DL, Radich JP. (2003) Nat Rev Cancer. 3,9: 650-65. 3. Tsapogas P. et al. (2017) Int J Mol Sci. 18,6:1115. 4. Hans G Drexler, Hilmar Quentmeier. (2004) Growth Factors. 22(2):71-3



SDS-PAGE analysis of GMP® Flt-3 Ligand, Human

For Research Use Only. Not for use in diagnostic or therapeutic procedures.