

## PRODUCT INFORMATION

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

<b>Catalog number</b>	C01085-GMP-100 / C01085-GMP-1000
<b>Package</b>	100 µg / 1 mg
<b>Description</b>	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.
<b>Source</b>	<i>Escherichia coli</i> Animal-free reagent and laboratory Manufactured and tested under GMP guideline
<b>Sequence</b>	MTQDCSFQHSPISSDFAVKIRELSDYLLQDYPVTVASNLQDEELCGGLWRLVLA QRWMERLKTVAGSKMQGLLERVNTEIHVFTKCAFQPPPSCLRFVQTNISRLLQE TSEQLVALKPWITRQNFRCLELQCQPDSSSTLPPPWSRPLEATA with polyhistidine tag at the C-terminus
<b>Endotoxin level</b>	<0.1 EU per 1 µg of the protein by the LAL method.
<b>Activity</b>	Measure by its ability to induce proliferation in BaF3 cells transfected with mouse Flt-3. The ED <sub>50</sub> for this effect is <0.8 ng/mL. The specific activity of recombinant human Flt-3 Ligand is > 1.5 x 10 <sup>6</sup> IU/mg.
<b>Purity</b>	>95% as determined by SDS-PAGE. Purified by Ni-NTA chromatography.
<b>Formulation</b>	The protein was lyophilized from a solution containing 1X PBS, pH 8.0.
<b>Reconstitution</b>	It is recommended to reconstitute the lyophilized protein in sterile H <sub>2</sub> O to a concentration not less than 100 µg/mL and incubate the stock solution for at least 20 min to ensure sufficient re-dissolved.
<b>Storage</b>	Lyophilized protein should be stored at -20°C. This product is stable for one year upon receipt, when handled and stored as instructed. Upon reconstitution, protein aliquots should be stored at -20°C or -80°C. Avoid repeated freeze/thaw cycles.
<b>Note</b>	Please use within one month after protein reconstitution.
<b>Specification</b>	Croyez GMP® recombinant proteins are manufactured in ISO 13485:2016 and GMP-certified facility. The processes include:

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- 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
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**Reference**

1. Dong J. et al. (2002) *Cancer Biol Ther.* 1,5: 486-9.
  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.
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SDS-PAGE analysis of Croyez GMP<sup>®</sup> Flt-3 Ligand, Human

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