

BACKGROUND:

Flt3-Ligand is a growth factor important for the proliferation of hematopoietic cells. Flt3-Ligand binds to, and transmits signals through, the receptor tyrosine kinase known as FMS-like Tyrosine Kinase-3 (FLT-3). Flt3-Ligand promotes long-term expansion and differentiation of human pro-B-cells in the presence of IL-7 or in combination of IL-7 and IL-3. Human Flt3-Ligand can stimulate the proliferation of cells expressing murine FLT-3 receptors.

Recombinant human Flt3-Ligand is a non-glycosylated protein containing 155 amino acids and having a molecular mass of 17.6 kDa.

Cat. No.:
RP1021AF

Alternate Names:
FLT3 L, Fms-related tyrosine kinase 3 ligand

AA Sequence:

MTQDCSFQHS	PISSDFAVKI	RELSDYLLQD
YPVTVASNLQ	DEELCGGLWR	LVLAQRWMER
LKTVAGSKMQ	GLLERVNTEI	HFVTKCAFQP
PPSCLRFVQT	NISRLLQETS	EQLVALKPWI
TRQNFSRCLE	LQCQPDSSTL	PPPWSRPLE
ATAPT		

TECHNICAL INFO

Source:
E. coli

Physical Appearance:
Sterile Filtered white lyophilized (freeze-dried) powder.

Formulation:
0.1% Trifluoroacetic Acid (TFA)

Stability:
Lyophilized product is very stable at -20°C. Reconstituted material should be aliquoted and frozen at -20°C. It is recommended that a carrier protein (0.1% HSA or BSA) is added for long term storage.

Reconstitution:
Centrifuge vial before opening. When reconstituting the product, gently pipet and wash down the sides of the vial to ensure full recovery of the protein into solution. It is recommended to reconstitute the lyophilized product with sterile water at 0.1 mg/mL, which can be further diluted into other aqueous solutions.

Protein Content and Purity determined by:

- UV spectroscopy at 280 nm.
- RP-HPLC calibrated against a known standard.
- Quantitation against a known standard via reducing and non-reducing SDS-PAGE gels.

Endotoxin Level:
Endotoxin level, as measured by LAL analysis, is <0.01ng/ug or <0.1EU/ug.

Biological Activity:
The activity is measured by dose-dependent OCI-AML5 cell proliferation, with Bioactivity Acceptance Criteria ED50 at 10 ng/mL.

Animal Component-Free
This product is produced with no animal derived raw products. All processing and handling employs animal free equipment and animal free protocols.

