

Rev03
Update: Dec,14,2021

DATASHEET

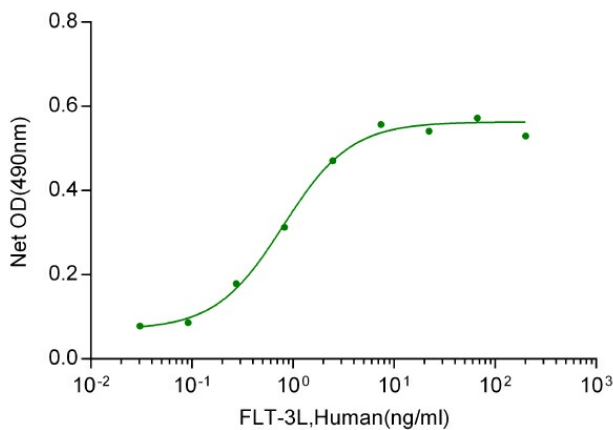
Flt-3L, Human

Cat. No.: Z02926

Product Introduction

Species	Human
Protein Construction	Flt-3L (Thr27-Pro185) Accession # P49771
Purity	> 95% as analyzed by SDS-PAGE > 95% as analyzed by HPLC
Endotoxin Level	< 0.2 EU/μg of protein by gel clotting method
Biological Activity	ED ₅₀ < 1.0 ng/ml, measured in a cell proliferation assay of human AML5 cells, corresponding to a specific activity of > 1.0 x 10 ⁶ units/mg
Expression System	CHO
Apparent Molecular Weight	18~22 kDa, on SDS-PAGE under reducing conditions.
Formulation	Lyophilized after extensive dialysis against PBS.
Reconstitution	It is recommended that this vial be briefly centrifuged prior to opening to bring the contents to the bottom. Reconstitute the lyophilized powder in ddH ₂ O or PBS up to 100 μg/ml.
Storage & Stability	Upon receiving, this product remains stable for up to 6 months at lower than -70°C. Upon reconstitution, the product should be stable for up to 1 week at 4°C or up to 3 months at -20°C. For long term storage it is recommended that a carrier protein (example 0.1% BSA) be added. Avoid repeated freeze-thaw cycles.

Examples



ED₅₀ < 1 ng/ml, measured in a cell proliferation assay of human AML5 cells, corresponding to a specific activity of > 1 x 10⁶ units/mg

Background

Target Background : Fms-related tyrosine kinase 3 ligand (Flt3L) is growth factor stimulates the proliferation and differentiation of hematopoietic multipotent progenitors and promotes proliferation of NK cells and dendritic cell subgroups by combination with other growth factors. Flt3L is produced by T cells and stromal fibroblasts, and targeted various cells including hematopoietic stem cells, B cells, T cells, dendritic cells, and NK cells. Flt3L binds to its cognate tyrosine kinase receptor Flt3 and activates JAK/STAT signaling pathway. Flt3L is a hematopoietic four helical bundle cytokine with structurally homologous to stem cell factor (SCF) and colony stimulating factor 1 (CSF-1) demonstrated four conserved cysteines and two glycosylation sites. Flt3L naturally as a non-disulfide-linked homodimer with multiple isoforms. The extracellular portion is approximately 160 amino acid residues in length and the cytoplasmic segment is approximately 20-30 amino acid residues in length.

Synonyms : Flt3 ligand; Flt3LG; SL cytokine; Fms-related tyrosine kinase 3 ligand

For laboratory research use only. Direct human use, including taking orally and injection and clinical use are forbidden.