

Datasheet for 009-001-U86-0100

## rHuman Flt-3 Ligand Protein

### Overview

<b>Description:</b>	Human Flt-3 Ligand Recombinant Protein - 009-001-U86-0100
<b>Item No.:</b>	009-001-U86-0100
<b>Size:</b>	100 µg
<b>Applications:</b>	SDS-PAGE, Cellular Assay
<b>Origin:</b>	Human
<b>Expressed in:</b>	E. coli

### Product Details

<b>Background:</b>	FMS-related Tyrosine Kinase 3 Ligand (FLT-3 Ligand) is a growth factor important for the proliferation of hematopoietic cells. FLT-3 Ligand binds to, and transmits signals through, the receptor tyrosine kinase known as FMS-like Tyrosine Kinase-3 (FLT-3). FLT-3 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 FLT-3 Ligand can stimulate the proliferation of cells expressing murine FLT-3 receptors. Recombinant human FLT-3 Ligand is a non-glycosylated protein, containing 155 amino acids, with a molecular weight of 17.7 kDa.
<b>Synonyms:</b>	FLt3 L, Fms-related tyrosine kinase 3 ligand
<b>Species of Origin:</b>	Human
<b>Expressed in:</b>	E. coli
<b>Type:</b>	Recombinant Protein
<b>Low Endotoxin:</b>	Yes

### Target Details

<b>Gene Name:</b>	FLT3LG
<b>Purity/Specificity:</b>	Flt-3 Ligand purity was determined to be greater than 98% as determined by analysis by HpLC, UV-Spectroscopy at 280nm and by reducing and non-reducing SDS-pAGE.
<b>Relevant Links:</b>	<ul style="list-style-type: none"><li>• <a href="#">UniProtKB - P49771</a></li></ul>

## Application Details

<b>Tested Applications:</b>	SDS-PAGE
<b>Suggested Applications:</b>	Cellular Assay (Based on references)
<b>Application Note:</b>	Flt-3 Ligand Recombinant Protein has been tested by SDS-PAGE and biological activity and is suitable as a control for polyclonal or monoclonal anti- Flt-3 Ligand in immunological assays. Buffer Formulation: 10 mM sodium phosphate and 50 mM sodium chloride, pH 7.5.
<b>Assay Dilutions:</b>	All assays should be optimized by the user. Recommended dilutions (if any) may be listed below.
<b>Other:</b>	Endotoxin Level: Measured by kinetic LAL analysis and is typically $\leq 1$ EU/ $\mu$ g protein. Biologic Activity: The activity is determined by the dose-dependent production of OCI-AML5 cell proliferation and is typically 10 ng/mL.

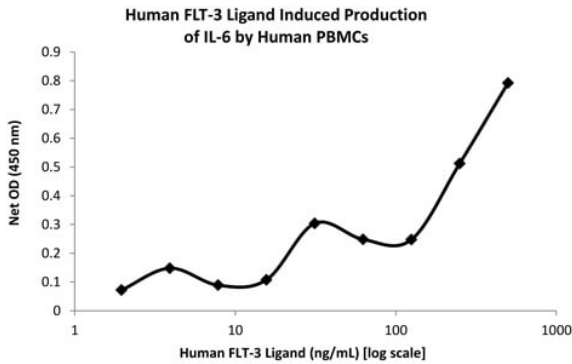
## Formulation

<b>Physical State:</b>	Lyophilized
<b>Buffer:</b>	See application note.
<b>Preservative:</b>	None
<b>Stabilizer:</b>	None
<b>Reconstitution Volume:</b>	100 $\mu$ L
<b>Reconstitution Buffer:</b>	Restore with deionized water (or equivalent)

## Shipping & Handling

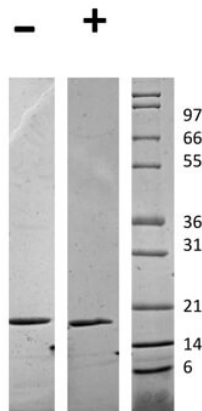
<b>Shipping Condition:</b>	Ambient
<b>Storage Condition:</b>	Store vial at 4° C prior to restoration. Dilute only prior to immediate use. Maintain sterility. This product DOES NOT contain preservative. DO NOT VORTEX. We recommend adding a carrier protein such as HSA or BSA to 0.1% (i.e. 1.0 mg/mL). For best results aliquot contents and freeze at -20° C or colder. Avoid cycles of freezing and thawing. Centrifuge vial before each opening to dislodge contents from the cap and to clarify if contents are not clear after standing at room temperature.
<b>Expiration:</b>	Expiration date is six (6) months from date of receipt.

## Images



#### SDS-PAGE

Bioactivity of Human FLT-3 Ligand Recombinant Protein. Serial dilutions of Human FLT-3 Ligand, starting at 1000 ng/mL, were added to primary Human PBMCs. After 48 hours human IL-6 was measure via ELISA and the linear portion of the curve was us used to calculate the ED50. The ED50 of Human FLT-3 Ligand is 100-150 ng/mL.



#### SDS-PAGE

SDS-PAGE of Human FLT-3 Ligand Recombinant Protein. Lane 1: 1 µg Human FLT-3 Ligand in non-reducing conditions (-). Lane 2: 1 µg Human FLT-3 Ligand in reducing conditions (+). Lane 3: Molecular weight marker. Human FLT-3 Ligand has a predicted MW of 17.6 kDa.

## Disclaimer

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