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Datasheet for 010-001-U86-0002

rMouse Flt-3 Ligand Protein

Overview

Description:	Mouse Flt-3 Ligand Recombinant Protein - 010-001-U86-0002
Item No.:	010-001-U86-0002
Size:	2 µg
Applications:	SDS-PAGE, Cellular Assay, IHC, WB
Origin:	Mouse

Product Details

Background:	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 mouse FLT-3 Ligand is a non-glycosylated protein, containing 163 amino acids, with a molecular weight of 18.6 kDa.
Synonyms:	FLt3 L, Fms-related tyrosine kinase 3 ligand
Species of Origin:	Mouse
Type:	Recombinant Protein
Low Endotoxin:	Yes

Target Details

Gene Name:	Flt3lg
Purity/Specificity:	Flt-3 Ligand purity was determined to be greater than 98% as determined by analysis by reducing and non-reducing SDS-pAGE.
Relevant Links:	• UniProtKB - P49772

Application Details

Tested Applications:	SDS-PAGE
Suggested Applications:	Cellular Assay, IHC, WB (Based on references)
Application Note:	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.
Assay Dilutions:	All assays should be optimized by the user. Recommended dilutions (if any) may be listed below.
Other:	Endotoxin Level: Measured by kinetic LAL analysis and is typically ≤ 1 EU/µg protein. Biologic Activity: The activity is determined by the dose-dependent proliferation of mouse AML5 cells and is typically 5-8 ng/mL.

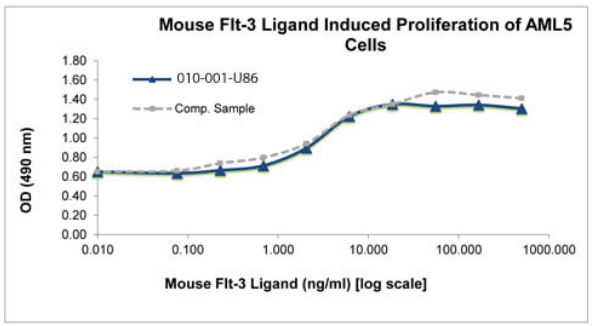
Formulation

Physical State:	Lyophilized
Buffer:	0.01 M Sodium Phosphate, pH 7.5
Preservative:	None
Stabilizer:	None
Reconstitution Volume:	2µl (2-20µl)
Reconstitution Buffer:	Restore with deionized water (or equivalent)

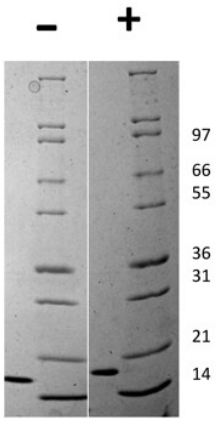
Shipping & Handling

Shipping Condition:	Ambient
Storage Condition:	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.
Expiration:	Expiration date is six (6) months from date of receipt.

Images



SDS-PAGE
Bioactivity of Mouse Flt-3 Ligand Recombinant Protein. Serial dilutions of Mouse Flt-3 Ligand, starting at 500 ng/mL, were added to AML5. Cell proliferation was measured after 65 hours and the linear portion of the curve was us used to calculate the ED50. The ED50 of Mouse Flt-3 Ligand is 2.2 - 3.3 ng/mL. This value is comparable with the typical expected range of 5-8 ng/mL.



SDS-PAGE
SDS-PAGE of Mouse Flt-3 Ligand Recombinant Protein. Lane 1: 1 µg Mouse Flt-3 Ligand in non-reducing conditions (-). Lane 2: Molecular weight marker. Lane 3: 1 µg Mouse Flt-3 Ligand in reducing conditions (+). Lane 4: Molecular weight marker. Mouse FLT-3 Ligand has a predicted MW of 18.6 kDa.

References

- Turnis M. et al. Requirement for Anti-Apoptotic MCL-1 during Early Erythropoiesis. *Blood* (2020)

Disclaimer

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