Datasheet for ABIN6699872

FLT3LG Protein

2 Images

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Overview

Quantity:	100 µg
Target:	FLT3LG
Origin:	Human
Source:	Escherichia coli (E. coli)
Protein Type:	Recombinant
Application:	SDS-PAGE (SDS)

Product Details

Purpose:	Human Flt-3 Ligand Recombinant Protein (Animal Free)
Purification:	FMS-related Tyrosine Kinase 3 Ligand is produced with no animal-derived raw products, animal free equipment and animal free protocols. 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.
Purity:	98,00%
Endotoxin Level:	Measured by LAL is typically ≤ 1 EU/µg protein.
Grade:	Animal-Free
Biological Activity Comment:	The activity is determined by the dose-dependent production of OCI-AML5 cell proliferation and is typically 10 ng/mL.

Target Details

Target:	FLT3LG

Target Details

Alternative Name:	FLT3LG (FLT3LG Products)
Background:	Synonyms: FLt3 L, Fms-related tyrosine kinase 3 ligand 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 human FLT-3 Ligand is a non-glycosylated protein, containing 155 amino acids, with a molecular weight of 17.7 kDa.
UniProt:	P49771
Pathways:	RTK Signaling

Application Details

Application Notes:	Other: User Optimized 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.
Comment:	Suggested_Applications: Cellular Assay Other_Performance_Data:
Restrictions:	For Research Use only

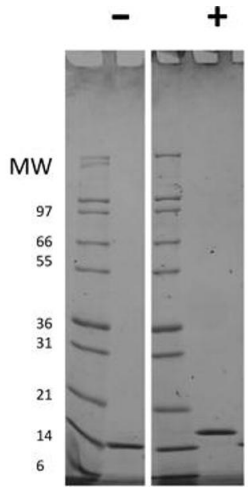
Handling

Format:	Lyophilized
Reconstitution:	Reconstitution_Buffer: Restore with deionized water (or equivalent) Reconstitution_Volume: 100 µL
Buffer:	Buffer Formulation: 10 mM sodium phosphate and 50 mM sodium chloride, pH 7.5.
Preservative:	Without preservative
Storage:	4 °C,-20 °C
Storage Comment:	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

Handling

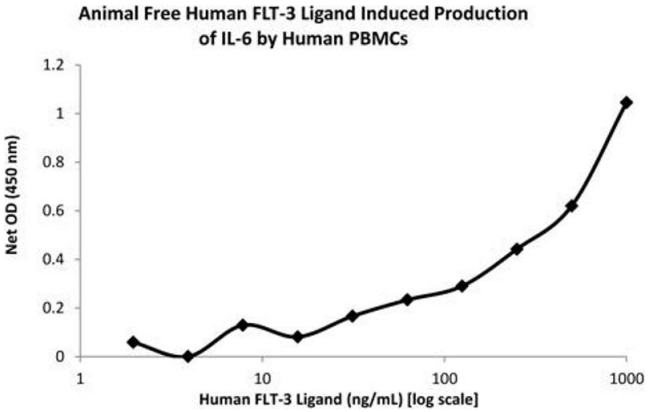
	freeze at -20° C or colder. Avoid cycles of freezing and thawing. Centrifuge vial before each opening to dislodge contents from the cap and to clarify if contents are not clear after standing at room temperature.
Expiry Date:	6 months

Images



SDS-PAGE

Image 1. SDS-PAGE of Human Flt-3 Ligand Recombinant Protein (Animal Free) SDS-PAGE of Human FLT-3 Animal Free Ligand Recombinant Protein. Lane 1: Molecular weight marker. Lane 2: 1 µg Human FLT-3 Ligand AF in non-reducing conditions . Lane 3: Molecular weight marker. Lane 4: 1 µg Human FLT-3 Ligand AF in reducing conditions (+). Human FLT-3 Ligand AF has a predicted MW of 17.6 kDa.



SDS-PAGE

Image 2. SDS-PAGE of Human Flt-3 Ligand Recombinant Protein (Animal Free) Bioactivity of Human FLT-3 Ligand Animal Free 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.