Datasheet for ABIN6253536

FLT3LG Protein (AA 27-185) (His tag)

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Overview

Quantity:	100 µg
Target:	FLT3LG
Protein Characteristics:	AA 27-185
Origin:	Human
Source:	Hi-5 Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This FLT3LG protein is labelled with His tag.

Product Details

Sequence:	AA 27-185
Purity:	>90 % as determined by SDS-PAGE.
Endotoxin Level:	Less than 1.0 EU per µg by the LAL method.

Target Details

Target:	FLT3LG
Alternative Name:	Flt-3 Ligand (FLT3LG Products)
Background:	FMS-like tyrosine kinase 3 ligand (Flt-3 Ligand) is also known as FL, Flt3L and FLT3LG, is an α-helical cytokine that promotes the differentiation of multiple hematopoietic cell lineages. FLT3LG is expressed as a noncovalentlylinked dimer by T cells and bone marrow and thymic fibroblasts. Each 36 kDa chain carries approximately 12 kDa of N- and O- linked carbohydrates. FLT3LG is structurally homologous to stem cell factor (SCF) and colony stimulating facor 1

Target Details

	(CSF-1). FLT3LG acts as a growth factor that increases the number of immune cells by activating the hematopoietic progenitors. It also induces the mobilization of the hematopoietic progenitors and stem cells in vivo which may help the system to kill cancer cells. FLT3LG induces the expansion of monocytes and immature dendritic cells as well as early B cell lineage differentiation. FLT3LG cooperates with IL2, IL6, IL7, and IL15 to induce NK cell development and with IL3, IL7 and IL11 to induce terminal B cell maturation. Animal studies also show FLT3LG to reduce the severity of experimentally induced allergic inflammation. FLT3LG is crucial for steady-state pDC and cDC development. A lack of FLT3L results in low levels of DCs.
Molecular Weight:	19.9 kDa
NCBI Accession:	NP_001450
Pathways:	RTK Signaling

Application Details

Restrictions:	For Research Use only

Handling

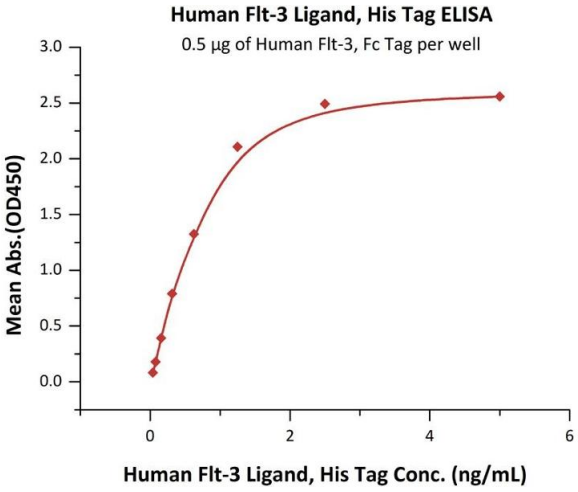
Format:	Lyophilized
Buffer:	PBS, pH 7.4
Handling Advice:	Please avoid repeated freeze-thaw cycles.
Storage:	-20 °C

Publications

Product cited in:	Lu, Chen, Tang, Wang, Zhang: "GRP78 silencing enhances hyperoxia-induced alveolar epithelial cell apoptosis via CHOP pathway." in: **Molecular medicine reports**, Vol. 16, Issue 2, pp. 1493-1501, (2018) (PubMed). Chen, Li, Liu, Luo, Liao, Li, Liu, Cheng, Lu, Chen: "Oleic acid protects saturated fatty acid mediated lipotoxicity in hepatocytes and rat of non-alcoholic steatohepatitis." in: **Life sciences**, Vol. 203, pp. 291-304, (2018) (PubMed). Yang, He, Li, Zhang, He, Duan, Huang, Xiang: "SWNHs (Single-Wall Carbon Nanohorns) Supervises Endoplasmic Reticulum (ER) Stress in Hepatocellular Carcinoma." in: **Journal of**

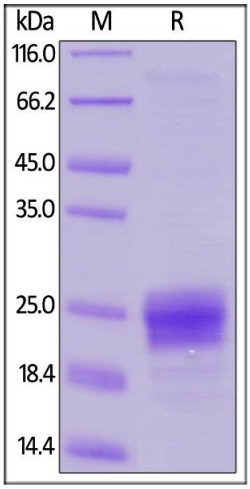
nanoscience and nanotechnology, Vol. 18, Issue 10, pp. 6740-6745, (2018) (PubMed).

Images



ELISA

Image 1. Immobilized Human Flt-3, Fc Tag (ABIN6731308,ABIN6809860) at 5 μg/mL (100 μL/well) can bind Human Flt-3 Ligand, His Tag (ABIN5954994,ABIN6253536) with a linear range of 0.1-0.6 ng/mL (QC tested).



SDS-PAGE

Image 2. Human Flt-3 Ligand, His Tag on under reducing (R) condition. The gel was stained overnight with Coomassie Blue. The purity of the protein is greater than 90 % .