

Datasheet for ABIN7491189

SEMA4D/CD100 Protein (AA 22-734) (His tag)[Go to Product page](#)**1** Image

Overview

Quantity:	100 µg
Target:	SEMA4D/CD100 (SEMA4D)
Protein Characteristics:	AA 22-734
Origin:	Human
Source:	HEK-293 Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This SEMA4D/CD100 protein is labelled with His tag.

Product Details

Purpose:	Recombinant human SEMA4D protein with C-terminal 6xHis tag
Specificity:	SEMA4D (Met22-Arg734) 6xHis tag
Characteristics:	Extracellular Domain Protein
Purification:	Purified from cell culture supernatant by affinity chromatography
Purity:	The purity of the protein is greater than 85 % as determined by SDS-PAGE and Coomassie blue staining.

Target Details

Target:	SEMA4D/CD100 (SEMA4D)
Alternative Name:	SEMA4D (SEMA4D Products)
Background:	Cell surface receptor for PLXNB1 and PLXNB2 that plays an important role in cell-cell signaling

Target Details

(PubMed:20877282). Regulates GABAergic synapse development (By similarity). Promotes the development of inhibitory synapses in a PLXNB1-dependent manner (By similarity). Modulates the complexity and arborization of developing neurites in hippocampal neurons by activating PLXNB1 and interaction with PLXNB1 mediates activation of RHOA (PubMed:19788569). Promotes the migration of cerebellar granule cells (PubMed:16055703). Plays a role in the immune system, induces B-cells to aggregate and improves their viability (in vitro) (PubMed:8876214). Induces endothelial cell migration through the activation of PTK2B/PYK2, SRC, and the phosphatidylinositol 3-kinase-AKT pathway (PubMed:16055703).[UniProtKB/Swiss-Prot Function]

Molecular Weight: predicted molecular mass of 80 kDa after removal of the signal peptide. The apparent molecular mass of SEMA4D-His is 95-130 kDa due to glycosylation.

UniProt: [Q92854](#)

Pathways: [Regulation of Cell Size](#)

Application Details

Restrictions: For Research Use only

Handling

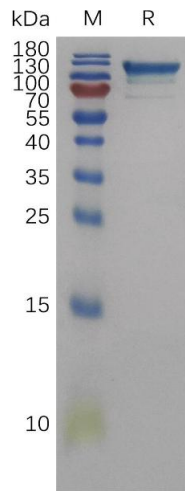
Format: Lyophilized

Buffer: Lyophilized from sterile PBS, pH 7.4. Normally 5 % - 8 % trehalose is added as protectants before lyophilization.

Storage: -20 °C,-80 °C

Storage Comment: Store at -20°C to -80°C for 12 months in lyophilized form. After reconstitution, if not intended for use within a month, aliquot and store at -80°C (Avoid repeated freezing and thawing).
Lyophilized proteins are shipped at ambient temperature.

Expiry Date: 12 months



SDS-PAGE

Image 1. Human SD Protein, His Tag on SDS-PAGE under reducing condition.