

## 32-17985: Recombinant Human SEMA4D Protein, His Tag

**Uniprot ID :** Q92854

**Alternative Name :** A8; BB18; GR3; CD100; C9orf164; CD100; SEMAJ

### Description

Molecular Characterization: SEMA4D(Met22-Arg734) 6Å—His tag

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

Description: Recombinant human SEMA4D protein with C-terminal 6Å—His tag

Cell surface receptor for PLXNB1 and PLXNB2 that plays an important role in cell-cell signaling (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]

### Product Info

**Amount :** 100 µg / 50 µg

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

**Storage condition :** 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.