
Product Data Sheet

Product Name: CD100 Human HEK
Cat. No.: GP23087
Batch No.: 1

Product Data

Purity >98%

Source

Physical Appearance solid

Shipping Condition

Synonyms These semaphorin family containing 1 Ig-like C2-type domain; 1 PSI domain and 1 Sema domain; Semaphorin-4D; A8; BB18; GR3; SEMA

Amino Acid Sequence MAFAPIPRITWEHREVHLVQFHEPDIYNYSALLLSEDKDTLYIGAREAVFAVNALNISEKQHEVYWKVSEDKKAKCAEKGKSKQTECLNYIRVLQPLSATSI

Solubility It is recommended to reconstitute the lyophilized CD100 in 1xPBS to a concentration no less than 100 µg/ml, which can then be filtered.

Formulation CD100 was lyophilized from a 0.2 µM filtered solution of 20mM PB and 150mM NaCl, PH 7.4.

Introduction

Semaphorin-4D (CD100) is a member of the semaphorin family containing 1 Ig-like C2-type domain, 1 PSI domain and 1 Sema domain. CD100 is the cell surface receptor for PLXN1B and PLXNB2 which plays a central role in cell-cell signaling. CD100 stimulates the migration of cerebellar granule cells and of endothelial cells, regulates dendrite and axon branching and morphogenesis. In addition, CD100 has a role in the immune system; it promotes signaling via SRC and PTK2B/PYK2, which subsequently mediates activation of phosphatidylinositol 3-kinase and of the AKT1 signaling cascade.

Stability

Lyophilized CD100 although stable at room temperature for 3 weeks, should be stored desiccated below -18°C. Upon reconstitution CD100 should be stored at 4°C between 2-7 days and for future use below -18°C. Please prevent freeze-thaw cycles.

Background

CD100 Human Recombinant produced by mammalian expression system in human cells is a single polypeptide chain containing 721 amino acids (22-734). CD100 is fused to an 8 amino acid His-tag at C-terminus & purified by proprietary chromatographic techniques.

Caution: Product has not been fully validated for medical applications. For research use only.

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