



LD Biopharma, Inc.
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- PRODUCT DATA SHEET -

Name of Product: Recombinant Human CD226 Protein
Catalog Number: hRP-0595
Manufacturer: LD Biopharma, Inc.

Introduction

Human CD226 gene encodes a glycoprotein expressed on the surface of NK cells, platelets, monocytes and a subset of T cells. It is a member of the Ig-superfamily containing 2 Ig-like domains of the V-set. The protein mediates cellular adhesion of platelets and megakaryocytic cells to vascular endothelial cells. The protein also plays a role in megakaryocytic cell maturation.

Human CD226 extracellular domain cDNA (19 - 254 aa, derived from BC074787) was constructed with codon optimization and expressed with a small T7-His-TEV cleavage site Tag (29aa) fusion at its N-terminal and expressed in E.coli as inclusion bodies. The final product was refolded using our unique “temperature shift inclusion body refolding” technology and chromatographically purified.

Gene Symbol: CD226 (DNAM-1; DNAM1; PTA1; TLIISA1)
Accession Number: NP_006557
Species: Human
Size: 50 µg / Vial
Composition: 0.5 mg/ml, sterile-filtered, in 20 mM pH 8.0 Tris-HCl Buffer, with proprietary formulation of NaCl, KCl, EDTA, sucrose and DTT.
Storage: In Liquid. Keep at -80°C for long term storage. Product is stable at 4 °C for at least 30 days.

Key References

Lozano,E.,et al.,*The TIGIT/CD226 axis regulates human T cell function*. J. Immunol. 188 (8), 3869-3875 (2012)

Tjon,J.M., et al., *DNAM-1 mediates epithelial cell-specific cytotoxicity of aberrant intraepithelial lymphocyte lines from refractory celiac disease type II patients*. J. Immunol. 186



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(11), 6304-6312 (2011)

Shibuya, K., et al., *CD226 (DNAM-1) is involved in lymphocyte function-associated antigen 1 costimulatory signal for naive T cell differentiation and proliferation*. *J. Exp. Med.* 198 (12), 1829-1839 (2003)

Applications

1. May be used as coating matrix protein or as soluble receptor for in vitro lymphocytes differentiation or activation regulations study.
2. May be used for protein-protein interaction assay development.
3. As antigen for specific antibody production.

Quality Control

1. Purity: > 90% by SDS-PAGE.

Recombinant Protein Sequence

MASMTGGQQMGRGHHHHHGNLYFQGGEEVLWHTSVPF AENMSLECVYPSMGILTQVEWFKIG
TQQDSIAIFSPTHGMVIRKPYAERVYFLNSTMASNNMTLFFRNASEDDVGYYSCLYTYPOGTW
QKVIQVVQSDSFEAAVPSNSHIVSEPGKNVTLTCQPQMTWPVQAVRWEKIQPRQIDLLTYCNLV
HGRNFTSKFPRQIVSNCSHGRWSVIVIPDVTVSDSGLYRCYLQASAGENETFVMRLTVAEGKTD
NQYTLFVA