



LD Biopharma, Inc.
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- PRODUCT DATA SHEET -

Name of Product: Recombinant Human CD353 Protein
Catalog Number: hRP-1820
Manufacturer: LD Biopharma, Inc.

Introduction

Human SLAM family member 8 (SLAMF8, also named as CD353) gene encodes a member of the CD2 family of cell surface proteins involved in lymphocyte activation. These proteins are characterized by its Ig domains. CD353 protein is expressed in lymphoid tissues, and studies of a similar protein in mouse suggest that it may play a role in B-lineage commitment and or/ modulation of signaling through the B cell receptor. The gene is found in a region of chromosome 1 containing many CD2 genes. Recent data indicated that CD150 / CD353 govern ROS-dependent innate immune response of myeloid cell thus modulating migration of these cells during inflammation in an opposing manner.

Extracellular domain of human CD353 cDNA (23 – 233aa) was constructed with codon optimization using gene synthesis technology and expressed with a small T7-His-TEV cleavage site Tag (29aa) fusion at its N-terminal. This protein was 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: CD353 (SLAMF8; BLAME; SBBI42)
Accession Number: NP_064510.1
Species: Human
Size: 50 µg / Vial
Composition: 1.0 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

Wang G, et al., *Migration of myeloid cells during inflammation is differentially regulated*



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by the cell surface receptor SLAMF1 and SLAMF8. PLoS One. Mar 23; 10(3) e0121968 (2015)

Wang G, et al., *Cutting edge: SLAMF8 is a negative regulator of Nox2 activity in macrophages. J Immunol. Jun 15; 188(12): 5829-5832 (2012)*

Davila S, et al., *New genetic associations detected in a host response study to hepatitis B vaccine. Genes Immun. 11 (3), 232-238 (2010)*

Applications

1. May be used for in vitro CD353 mediated myeloid or B cell's activities in ROS-dependent pathway for innate immune response pathway regulation study with this protein either as soluble factor or as coating matrix protein.
2. May be used for protein-protein interaction mapping.
3. Potential biomarker protein for monitoring myeloid cell activity in inflammation.
4. As immunogen for specific antibody production.

Quality Control

Purity: > 90% by SDS-PAGE.

Recombinant Protein Sequence

MASMTGGQQMGRGRHHHHHENLYFQGGFEAQVLSKVGGSVLLVAARPPGFQVREAIWRSLWPSE
ELLATFFRGSLETLYHSRFLGRAQLHSNLSLELGPLESGDSGNFSVLMVDTRGQPWTQTLQLKV
YDAVPRPVVQVFI AVERDAQPSKTCQVFLSCWAPNISEITYSWRRETTMDFGMEPHSLFTDGQV
LSISLGPGRDVA YSCIVSNPVS WDLATVTPWDSCHHEAAPGKASYKD