Recombinant Human CD1b molecule, His-tagged

Cat. No. CD1B-344H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	CD1B, 18-303aa, Human, His tag, E.coli
Species	Human
Source	E.coli
ProteinLength	18-303 a.a.
Description	CD1B is a member of the CD1 family of transmembrane glycoproteins, which are structurally related to the major histocompatibility complex (MHC) proteins and form heterodimers with beta-2-microglobulin. This protein contains 1 Ig-like (immunoglobulin-like) domain. CD1B is antigen-presenting protein that binds self and non-self lipid and glycolipid antigens and presents them to T-cell receptors on natural killer T-cells. Recombinant human CD1B protein, fused to His-tag at N-terminus, was expressed in E.coli and purified by conventional column chromatography, after refolding of the isolated inclusion bodies in a renaturation buffer.
Form	Liquid. In 20mM Tris-HCl buffer (pH 8.0) containing 0.2M NaCl, 20% glycerol,1mM DTT
Molecular Mass	34.2 kDa (310aa) confirmed by MALDI-TOF
AA Sequence	MGSSHHHHHH SSGLVPRGSH MGSMSEHAFQ GPTSFHVIQT SSFTNSTWAQ TQGSGWLDDL QIHGWDSDSG TAIFLKPWSK GNFSDKEVAE LEEIFRVYIF GFAREVQDFA GDFQMKYPFE IQGIAGCELH SGGAIVSFLR GALGGLDFLS

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	VKNASCVPSP EGGSRAQKFC ALIIQYQGIM ETVRILLYET CPRYLLGVLN AGKADLQRQV KPEAWLSSGP SPGPGRLQLV CHVSGFYPKP VWVMWMRGEQ EQQGTQLGDI LPNANWTWYL RATLDVADGE AAGLSCRVKH SSLEGQDIIL YWRNPTSIGS
Purity	>90% by SDS - PAGE
Storage	Can be stored at +4C short term (1-2 weeks). For long term storage, aliquot and store at -20C or -70C. Avoid repeated freezing and thawing cycles.
Concentration	0.5 mg/ml (determined by Bradford assay)

GENE INFORMATION

Gene Name	CD1B CD1b molecule [Homo sapiens]
Official Symbol	CD1B
Synonyms	CD1B; CD1b molecule; CD1, CD1b antigen , CD1B antigen, b polypeptide; T-cell surface glycoprotein CD1b; CD1B antigen, b polypeptide; cortical thymocyte antigen CD1B; differentiation antigen CD1-alpha-3; R1; CD1; CD1A; MGC125990; MGC125991;
Gene ID	910
mRNA Refseq	NM_001764
Protein Refseq	NP_001755
MIM	188360

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UniProt ID	P29016
Chromosome Location	1q22-q23
Pathway	Hematopoietic cell lineage, organism-specific biosystem; Hematopoietic cell lineage, conserved biosystem;
Function	protein binding;

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