

Recombinant Human CD1E Protein, C-His-tagged

Cat. No. CD1E-167H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human CD1E Protein with C-His tag was expressed in E. coli.
Species	Human
Source	E.coli
Description	The human CD1 family consists of five chromosome 1-localized genes which encode proteins that are involved in mediating the presentation of lipid antigens of microbial or self origin on the surface of immune cells. CD1E, also known as R2 or CD1A, is a 322 amino acid single-pass type I membrane protein that localizes to the lumen of the endoplasmic reticulum, as well as to the Golgi apparatus and contains one Ig-like domain. Expressed in a variety of tissues and on cortical thymocytes, dendritic cells and Langerhans cells, CD1E exists as a heterodimer with β-2-microglobulin and is necessary for the presentation of glycolipid antigens on the cell surface. CD1E is subject to posttranslational mono-ubiquitination and may also be proteolytically cleaved in endosomes to yield a soluble protein. CD1E is present on the surface of some T cell leukemias, suggesting a possible role in tumorigenesis.
Molecular Mass	~30 kDa
AA Sequence	EEQLSFRMLQTSSFANHSWAHSEGGSGWLGDLQTHGWDTVLGTIRFLKPWSHGDFS KQELKNLQSLFQLYFHSFIQIVQASAGQFQLEYPFEIQILAGCRMNAPQIFLNMAQQG SDFLSFQGISWEPSPGAGIRAQNIQVNLNRYLDIKEILQSLGHTCPRFLAGLMEAGE SELKRKVKPEAWLSCGPSPGPGRLQLVCHVSGFYKPKVWVMWMRGEQEQRGTQ

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	RGDVLPNADETWYLRATLDVAAGEAAGLSCRVKHSSLGGHDLIIHWGGY
Purity	Transferred into competent cells and the supernatant was purified by NI column affinity chromatography and the purity is > 85% (by SDS-PAGE).
Notes	For research use only, not for use in diagnostic procedure.
Storage	Store at 4 centigrade short term. Aliquot and store at -20 centigrade long term. Avoid freeze-thaw cycles.
Concentration	≥0.5 mg/mL
Storage Buffer	PBS, 4M Urea, pH7.4

GENE INFORMATION

Gene Name	CD1E CD1e molecule [Homo sapiens (human)]
Official Symbol	CD1E
Synonyms	CD1E; CD1e molecule; CD1e antigen , CD1E antigen, e polypeptide; T-cell surface glycoprotein CD1e, membrane-associated; R2G1; hCD1e; thymocyte antigen CD1E; CD1E antigen, e polypeptide; leukocyte differentiation antigen; differentiation antigen CD1-alpha-3; R2; CD1A; FLJ17609;
Gene ID	913
mRNA Refseq	NM_001042583
Protein Refseq	NP_001036048

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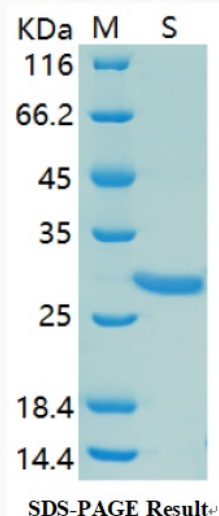
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MIM 188411

UniProt ID P15812

SDS-PAGE



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