

Recombinant Human CD207 protein, His-tagged

Cat. No. CD207-50H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant human CD207, fused to His-tag at C-terminus, was expressed in insect cell and purified by using conventional chromatography techniques.
Species	Human
Source	Insect Cells
Description	CD207, also known as C-type lectin domain family 4 member K, is a type 2 transmembrane glycoprotein. This protein is used as a marker for Langerhans cell which represent the immature dendritic cells in the epidermis. Also, it internalizes endogenous proteins such as type 1 procollagen. Internalization by Langerhans cell is thought to lead to suppression of self reactions. CD207 mediates endocytosis of non-peptide antigens containing mannose, N-acetyl glucosamine and fucose that are expressed by mycobacteria and fungi.
Form	Liquid. In Phosphate Buffered Saline (pH 7.4) containing 10% glycerol.
Molecular Mass	30.9kDa (273aa)28-40KDa (SDS–PAGE under reducing conditions.)
AA Sequence	ADPPRFMGTI SDVKTNVQLL KGRVDNISTL DSEIKKNSDG MEAAGVQIQM VNESLGYVRS QFLKLKTSVE KANAQIQILT RSWEVSTLN AQIPELKSDL EKASALNTKI RALQGSLENM SKLLKRQNDI LQVVSQGWKY FKGNFYFSL IPKTWYSAEQ FCVSRNSHLT SVTSESEQEF LYKTAGGLIY WIGLTKAGME GDWSWVDDTP FNKVQSARFW IPGEPNNAGN NEHCGNIKAP SLQAWNDAPC DKTFLFICKR PYVPSEPHHH HHH

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Endotoxin	< 1.0 EU per 1 microgram of protein (determined by LAL method)
Purity	>90% by SDS - PAGE
Storage	Can be stored at +4centigrade short term (1-2 weeks). For long term storage, aliquot and store at -20Centigrade or -70Centigrade. Avoid repeated freezing and thawing cycles.
Concentration	1.0mg/ml (determined by Absorbance at 280nm)

GENE INFORMATION

Gene Name	CD207 CD207 molecule, langerin [Homo sapiens]
Official Symbol	CD207
Synonyms	CD207; CD207 molecule, langerin; CD207 antigen, langerin; CLEC4K; Langerin
Gene ID	50489
mRNA Refseq	NM_015717
Protein Refseq	NP_056532
MIM	604862
UniProt ID	Q9UJ71
Chromosome Location	2p13
Pathway	Adaptive Immune System, organism-specific biosystem; Antigen processing-Cross

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presentation, organism-specific biosystem; Class I MHC mediated antigen processing and presentation, organism-specific biosystem; Cross-presentation of soluble exogenous antigens (endosomes), organism-specific biosystem; Immune System, organism-specific biosystem;

Function

binding; mannose binding; sugar binding;

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