

Recombinant human Langerin/CD207 protein

Catalog Number: ATGP3330

PRODUCT INFORMATION

Expression system

Baculovirus

Domain

65-328aa

UniProt No.

Q9UJ71

NCBI Accession No.

NP_056532

Alternative Names

C-type lectin domain family 4 member K, Langerin, CLEC4K

PRODUCT SPECIFICATION

Molecular Weight

30.9 kDa (273aa)

Concentration

1mg/ml (determined by absorbance at 280nm)

Formulation

Liquid in. Phosphate-Buffered Saline (pH 7.4) containing 10% glycerol

Purity

> 90% by SDS-PAGE

Endotoxin level

< 1 EU per 1ug of protein (determined by LAL method)

Tag

His-Tag

Application

SDS-PAGE

Storage Condition

Can be stored at +2C to +8C for 1 week. For long term storage, aliquot and store at -20C to -80C. Avoid repeated freezing and thawing cycles.

BACKGROUND

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

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containing mannose, N-acetyl glucosamine and fucose that are expressed by mycobacteria and fungus. Recombinant human CD207, fused to His-tag at C-terminus, was expressed in insect cell and purified by using conventional chromatography techniques.

Amino acid Sequence

<ADP>PRFMGTI SDVKTNVQLL KGRVDNISTL DSEIKKNSDG MEAAGVQIQM VNESLGYVRS QFLKTKTSVE KANAQIQILT
RSWEEVSTLN AQIPELKSDL EKASALNTKI RALQGSLENM SKLLKRQNDI LQVVSQGWKY FKGNYFYFSL IPKTWYSAEQ
FCVSRNSHLT SVTSESEQEF LYKTAGGLIY WIGLTKAGME GDWSWVDDTP FNKVQSARFW IPGEPNNAGN NEHCGNIKAP
SLQAWNDAPC DKTFLFICKR PYVPSEP<HHH HHH>

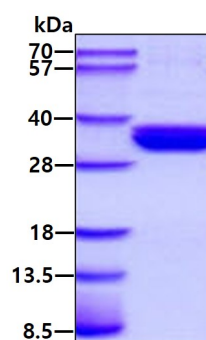
General References

Ward EM., et al. (2006) J. Biol. Chem. 281:15450-15456.

Chabrol E., et al. (2012) PLoS ONE. 7:E50722.

DATA

SDS-PAGE



3ug by SDS-PAGE under reducing condition and visualized by coomassie blue stain.