

Recombinant human Langerin/CD207 protein

Catalog Number: ATGP3047

PRODUCT INFORMATION

Expression system

E.coli

Domain

65-328aa

UniProt No.

Q9UJ71

NCBI Accession No.

NP_056532

Alternative Names

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

PRODUCT SPECIFICATION

Molecular Weight

32.2 kDa (287aa)

Concentration

1mg/ml (determined by Bradford assay)

Formulation

Liquid in. 20mM Tris-HCl buffer (pH 8.0) containing 10% glycerol

Purity

> 85% by SDS-PAGE

Tag

His-Tag

Application

SDS-PAGE, Denatured

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 expressed in Langerhans cells which are immature dendritic cells of the epidermis and mucosa. Additionally it's known by the name C-type lectin domain family 4 member K (CD antigen CD207). It is also expressed in several other dendritic cell types including dermal CD103+ DCs and splenic CD8+ DCs. Langerin is localized in the Birbeck granules, organelles present in the cytoplasm of Langerhans cells and consisting of superimposed and zippered membranes. It is a C-type lectin with mannose binding specificity, and it has been proposed that mannose binding by this protein leads to

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internalization of antigen into Birbeck granules and providing access to a nonclassical antigen-processing pathway. Recombinant human CD207, fused to His-tag at N-terminus, was expressed in *E. coli*.

Amino acid Sequence

MGSSHHHHHH SSGLVPRGSH MGSPRFMGTI SDVKTNVQLL KGRVDNISTL DSEIKKNSDG MEAAGVQIQM VNESLGYVRS
QFLKLTSEVE KANAQIQILT RSWEVSTLN AQIPELKSDL EKASALNTKI RALQGSLENM SKLLKRQNDI LQVVSQGWKY
FKGNFYFSL IPKTWYSAEQ FCVSRNSHLT SVTSESEQEF LYKTAGGLIY WIGLTKAGME GDWSWVDDTP FNKVQSARFW
IPGEPNAGN NEHCGNIKAP SLQAWNDAPC DKTFLFICKR PYVPSEP

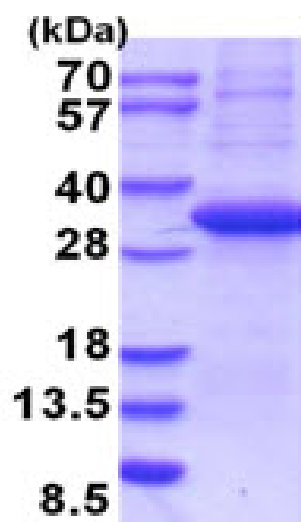
General References

Feinberg H., et al. (2013) *J. Biol. Chem.* 288 (52), 36762-36771

Lauc G., et al. (2013) *PLoS Genet.* 9 (1), E1003225

DATA

SDS-PAGE



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

15% SDS-PAGE (3 μ g)