
Product Data Sheet

Product Name: CD207 Human, sf9

Cat. No.: GP23094

Batch No.: 1

Product Data

Purity	>98%	Source	Sf9, Baculovirus cells.
Physical Appearance	solid	Shipping Condition	Shipped with Ice Packs.
Synonyms	C-type lectin domain family 4 member K; Langerin; CD207; CD207 Molecule; CD207 Molecule; Langerin; CD207 Antigen; Langerin; CLEC4K; Langerhans Cell Specific C-Type Lectin; Langerin.		
Amino Acid Sequence	ADPPRFMGTI SDVKTNVQLL KGRVDNISTL DSEIKKNSDG MEAAGVQIQM VNESLGYVRS QFLKLTVE KANAQIQILT RSWEVSTLN AQIPELKSDL EKASALNTKI RALQGSLENM SKLLKRQNDI LQVVSQGWKY FKGNYFYFSL IPKTWYSAEQ FCVSRNSHLT SVTSESEQEF LYKTAGGLIY WIGLTKAGME GDWSWVDDTP FNKVQSARFW IPGEPNAGN NEHCGNIKAP SLQAWNDAPC DKTFLFICKR PYVPSEPHHH HHH.		
Formulation	CD207 protein solution (1mg/ml) contains PhosphateBuffered Saline (pH 7.4) and 10% glycerol.		

Introduction

CD207 (C-type lectin domain family 4 member K) is expressed in Langerhans cells which are immature dendritic cells of the epidermis and mucosa. Moreover, CD207 is expressed in several other dendritic cell types including dermal CD103+ DCs and splenic CD8+ DCs. Langerin is localized in the Birbeck granules, the organelles present in the cytoplasm of Langerhans cells and comprised of superimposed and zippered membranes. CD207 is a C-type lectin with mannose binding specificity, and it has been suggested that mannose binding by the CD207 protein leads to internalization of antigen into Birbeck granules thus providing access to a nonclassical antigen-processing pathway.

Stability

Store at 4°C if entire vial will be used within 2-4 weeks. Store, frozen at -20°C for longer

Caution: Product has not been fully validated for medical applications. For research use only.

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periods of time. For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA). Avoid multiple freeze-thaw cycles.

Background

CD207 produced in Sf9 Baculovirus cells is a single, glycosylated polypeptide chain containing 273 amino acids (65-328 a.a.) and having a molecular mass of 30.9kDa (Migrates at 28-40kDa on SDS-PAGE under reducing conditions).

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