

Active Recombinant Human CD207 Molecule, Langerin, His-tagged

Cat. No. CD207-5607H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human CD207 protein was expressed in Murine myeloma cell line with an N-terminal 9-His tag. Tyr64-Pro328.
Species	Human
Source	Mammalian Cells
Protein Length	64-328 a.a.
Description	CD207 is a type II transmembrane glycoprotein which is member K of the C type lectin domain family 4. CD207 is used as a marker for Langerhans cells (LCs) which represent the immature dendritic cells in the epidermis. LCs uniquely contain tennis racket shaped endosomal recycling compartment subdomains with pentalamellar membranes termed Birbeck granules. CD207 is necessary and sufficient for Birbeck granule formation.
Form	Lyophilized from a 0.2 µm filtered solution in PBS.
N-terminal Sequence	His
Molecular Weight	31 kDa
Activity	Measured by its ability to bind biotinylated Mannose-Polyacrylamide in a functional ELISA. Valladeau, J. et al. (2000) Immunity 12:71.

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Endotoxin Level	<1.0 EU per 1 µg of the protein by the LAL method.
SDS-PAGE	35-40kDa, reducing conditions
Purity	>95%, by SDS-PAGE under reducing conditions and visualized by silver stain.
Reconstitution	Reconstitute at 100 µg/mL in sterile PBS
Storage	Use a manual defrost freezer and avoid repeated freeze-thaw cycles. 12 months from date of receipt, -20 to -70°C as supplied. 1 month, 2 to 8 °C under sterile conditions after reconstitution. 3 months, -20 to -70°C under sterile conditions after reconstitution.

GENE INFORMATION

Gene Name	CD207 CD207 molecule, langerin[Homo sapiens]
Official Symbol	CD207
Synonyms	CD207; CD207 molecule, langerin; CLEC4K; C-type lectin domain family 4 member K; CD207 antigen, langerin; Langerhans cell specific c-type lectin; C-type lectin domain family 4, member K; Langerin; OTTHUMP00000203299; CD207 antigen
Gene ID	50489
mRNA Refseq	NM_015717
Protein Refseq	NP_056532
MIM	604862

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UniProt ID	Q9UJ71
Chromosome Location	2p13
Pathway	Adaptive ImmuneSystem; Antigen processing-Cross presentation; Class I MHC mediated antigenprocessing & presentation; Cross-presentation of soluble exogenousantigens (endosomes); Immune System
Function	binding; mannosebinding; sugar binding
Renderingbased on PDB 3C22.	