

# Active Recombinant Human CD207 Molecule, Langerin, His-tagged

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

## SPECIFICATION

<b>Product Overview</b>	Recombinant Human CD207 protein was expressed in Murine myeloma cell line with an N-terminal 9-His tag. Tyr64-Pro328.
<b>Species</b>	Human
<b>Source</b>	Mammalian Cells
<b>Protein Length</b>	64-328 a.a.
<b>Description</b>	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.
<b>Form</b>	Lyophilized from a 0.2 µm filtered solution in PBS.
<b>N-terminal Sequence</b>	His
<b>Molecular Weight</b>	31 kDa
<b>Activity</b>	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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<b>Endotoxin Level</b>	<1.0 EU per 1 µg of the protein by the LAL method.
<b>SDS-PAGE</b>	35-40kDa, reducing conditions
<b>Purity</b>	>95%, by SDS-PAGE under reducing conditions and visualized by silver stain.
<b>Reconstitution</b>	Reconstitute at 100 µg/mL in sterile PBS
<b>Storage</b>	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

<b>Gene Name</b>	CD207 CD207 molecule, langerin [ Homo sapiens ]
<b>Official Symbol</b>	CD207
<b>Synonyms</b>	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
<b>Gene ID</b>	50489
<b>mRNA Refseq</b>	NM_015717
<b>Protein Refseq</b>	NP_056532
<b>MIM</b>	604862

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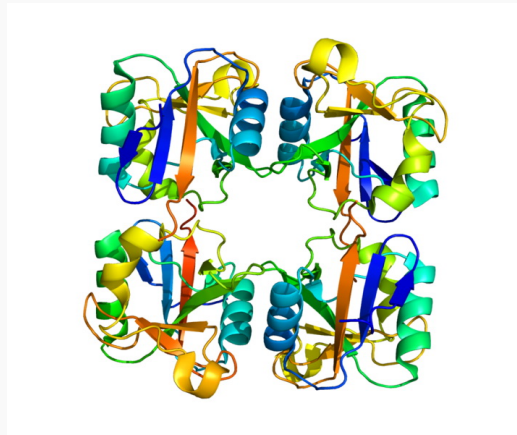
**UniProt ID** Q9UJ71

**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.



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