Langerin/CD207 Protein, Mouse (His)

Cat. No.:	HY-P71602
Synonyms:	Cd207; Clec4kC-type lectin domain family 4 member K; Langerin; CD antigen CD207
Species:	Mouse
Source:	E. coli
Accession:	Q8VBX4 (63Q-331E)
Gene ID:	246278
Molecular Weight:	Approximately 34.7 kDa

PROPERTIES

AA Sequence	Q A V F Y P R L M G K I L D V K S D A Q M L K G R V D N I S T L G S D L K T E R G R V D D A E V Q M Q I V N T T L K R V R S Q I L S L E T S M K I A N D Q L Q I L T M S W G E V D S L S A K I P E L K R D L D K A S A L N T K V Q G L Q N S L E N V N K L L K Q Q S D I L E M V A R G W K Y F S G N F Y Y F S R T P K T W Y S A E Q F C I S R K A H L T S V S S E S E Q K F L Y K A A D G I P H W I G L T K A G S E G D W Y W V D Q T S F N K E Q S R R F W I P G E P N N A G N N E H C A N I R V S A L K C W N D G P C D N T F L F I C K R P Y V Q T T E
Appearance	Lyophilized powder.
Formulation	Lyophilized after extensive dialysis against solution in Tris-based buffer, 50% glycerol.
Endotoxin Level	<1 EU/μg, determined by LAL method.
Reconsititution	It is not recommended to reconstitute to a concentration less than 100 μg/mL in ddH_2O.
Storage & Stability	Stored at -20°C for 2 years. After reconstitution, it is stable at 4°C for 1 week or -20°C for longer (with carrier protein). It is recommended to freeze aliquots at -20°C or -80°C for extended storage.
Shipping	Room temperature in continental US; may vary elsewhere.

DESCRIPTION

Background	Langerin, also known as CD207, is a calcium-dependent lectin with a specific affinity for mannose. This protein plays a crucial role in antigen uptake and processing. Langerin induces the formation of Birbeck granules (BGs) and acts as a potent regulator of membrane superimposition and zippering. It demonstrates binding capabilities not only to mannosylated glycans but also to sulfated glycans such as keratan sulfate (KS) and beta-glucans. As a homotrimer, Langerin facilitates the uptake of antigens and is involved in the routing and processing of antigens for presentation to T cells. The multifaceted functions of Langerin highlight its significance in immune response modulation and antigen presentation pathways.

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

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