

## Langerin/CD207 Protein, Rhesus Macaque (HEK293, Fc)

Cat. No.:	HY-P77437
Synonyms:	C-type lectin domain family 4 member K; CLEC4K
Species:	Rhesus Macaque
Source:	HEK293
Accession:	EHH22200 (P65-P328)
Gene ID:	/
Molecular Weight:	Approximately 58.3 kDa.

### PROPERTIES

Appearance	Lyophilized powder.
Formulation	Lyophilized from a 0.2 $\mu$ m filtered solution of PBS, pH 7.4. Normally 5 % - 8 % trehalose, mannitol and 0.01% Tween 80 are added as protectants before lyophilization.
Endotoxin Level	<1 EU/ $\mu$ g, determined by LAL method.
Reconstitution	It is not recommended to reconstitute to a concentration less than 100 $\mu$ g/mL in ddH <sub>2</sub> O.
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.
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**Caution: Product has not been fully validated for medical applications. For research use only.**

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