

RP105/CD180 Protein, Human (HEK293, His)

Cat. No.:	HY-P77181
Synonyms:	CD180 antigen; Lymphocyte antigen 64; LY64
Species:	Human
Source:	HEK293
Accession:	Q99467 (W24-G626)
Gene ID:	4064
Molecular Weight:	90-100 kDa

PROPERTIES

Appearance	Lyophilized powder.
Formulation	Lyophilized from a 0.2 µm 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/µg, determined by LAL method.
Reconstitution	It is not recommended to reconstitute to a concentration less than 100 µg/mL in ddH ₂ 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	<p>The RP105/CD180 protein emerges as a key player in mediating the innate immune response to bacterial lipopolysaccharide (LPS) in B-cells, likely through cooperation with MD-1 and TLR4. This collaborative effort leads to NF-κB activation, underscoring its role in initiating crucial signaling pathways. Additionally, RP105/CD180 is implicated in the life/death decision of B-cells, indicating its involvement in critical cellular processes. The structural organization of RP105/CD180 involves the formation of an M-shaped tetramer, constituted by two CD180-LY86 heterodimers. These distinctive features highlight the multifaceted nature of RP105/CD180 in orchestrating immune responses and cellular decisions in B-cells. Further exploration is essential to unravel the specific molecular mechanisms through which RP105/CD180 contributes to the intricate dynamics of the innate immune system and its collaboration with MD-1 and TLR4 in response to bacterial LPS.</p>
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Caution: Product has not been fully validated for medical applications. For research use only.

Tel: 609-228-6898

Fax: 609-228-5909

E-mail: tech@MedChemExpress.com

Address: 1 Deer Park Dr, Suite Q, Monmouth Junction, NJ 08852, USA