

CD53 Protein, Cynomolgus (HEK293, His)

Cat. No.:	HY-P76806
Synonyms:	Leukocyte surface antigen CD53; Cell surface glycoprotein CD53
Species:	Cynomolgus
Source:	HEK293
Accession:	G7NW46 (E107-N181)
Gene ID:	102127943
Molecular Weight:	19-22 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 CD53 Protein is an integral member of the tetraspanin (TM4SF) family, underscoring its essential role in cellular processes, including immune responses, cell adhesion, and signal transduction. As part of this family, CD53 likely shares conserved structural and functional features with related proteins, emphasizing its involvement in the formation of tetraspanin-enriched microdomains and interactions with other cellular molecules. The classification within the tetraspanin family underscores its specific designation within the broader context of membrane proteins, providing insights into its unique contributions to cell membrane organization and function. The study of CD53 contributes to our understanding of its role in diverse physiological processes, offering potential applications in immunology, cancer research, and a deeper comprehension of its broader impact on cellular functions. Further exploration of CD53's role holds promise for enhancing our knowledge of its contributions to both normal physiology and pathological conditions.</p>
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Caution: Product has not been fully validated for medical applications. For research use only.

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