Blood group RhD polypeptide Protein, Human (Cell-Free, His)

Cat. No.:	HY-P702224
Synonyms:	Blood group Rh(D) polypeptide; RHXIII; Rh polypeptide 2; RhPII; Rhesus D antigen
Species:	Human
Source:	E. coli Cell-free
Accession:	Q02161 (S2-F417)
Gene ID:	/
Molecular Weight:	47.9 kDa

PROPERTIES

AA Sequence	S S K Y P R S V R R C L P L W A L T L E A A L I L L F Y F F T H Y D A S L E D Q K G L V A S Y Q V G Q D L T V M A A I G L G F L T S S F R R H S W S S V A F N L F M L A L G V Q W A I L L D G F L S Q F P S G K V V I T L F S I R L A T M S A L S V L I S V D A V L G K V N L A Q L V V M V L V E V T A L G N L R M V I S N I F N T D Y H M N M M H I Y V F A A Y F G L S V A W C L P K P L P E G T E D K D Q T A T I P S L S A M L G A L F L W M F W P S F N S A L L R S P I E R K N A V F N T Y Y A V A V S V V T A I S G S S L A H P Q G K I S K T Y V H S A V L A G G V A V G T S C H L I P S P W L A M V L G L V A G L I S V G G A K Y L P G C C N R V L G I P H S S I M G Y N F S L L G L L G E I I Y I V L L V L D T V G A G N G M I G F Q V L L S I G E L S L A I V I A L M S G L L T G L L L N L K I W K A P H E A K Y F D D Q V F W K F P H L A V G F
Appearance	Lyophilized powder.
Formulation	Lyophilized from a 0.22 μm filtered solution of Tris/PBS-based buffer, 6% Trehalose, pH 8.0.
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. For long term storage it is recommended to add 5-50% of glycerol (final concentration). Our default final concentration of glycerol is 50%. Customers could use it as reference.
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	The Blood group RhD polypeptide protein emerges as a potential component of an oligomeric complex, indicating its likely involvement in a structure that may have a transport or channel function within the erythrocyte membrane. Although the specific details of this complex and its precise role in transport or channel activities are yet to be fully elucidated, the association of Blood group RhD polypeptide with such a complex suggests a potential role in modulating the transport functions crucial for erythrocyte membrane integrity and functionality. The versatile nature of this protein within the erythrocyte membrane underscores its potential impact on diverse cellular processes, making it a subject of interest for further exploration to unravel its contribution to the intricate dynamics of erythrocyte function.

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