

Product Data Sheet

RHCE Protein, Human (Cell-Free, His)

Cat. No.:	HY-P702422			
Synonyms:	Blood group Rh(CE) polypeptide; Rh polypeptide 1; RhPI; Rh30A; RhIXB; Rhesus C/E antigens			
Species:	Human			
Source:	E. coli Cell-free			
Accession:	P18577 (M1-F417)			
Gene ID:	6006			
Molecular Weight:	47.1 kDa			

Inhibitors • Screening Libraries • Proteins

PROPERTIES

AA Sequence						
	MSSKYPRSVR	RCLPLWALTL	EAALILLFYF	FTHYDASLED		
	QKGLVASYQV	GQDLTVMAAL	GLGFLTSNFR	RHSWSSVAFN		
	LFMLALGVQW	AILLDGFLSQ	FPPGKVVITL	FSIRLATMSA		
	MSVLISAGAV	LGKVNLAQLV	VMVLVEVTAL	GTLRMVISNI		
	FNTDYHMNLR	HFYVFAAYFG	LTVAWCLPKP	L P K G T E D N D Q		
	RATIPSLSAM	LGALFLWMFW	PSVNSPLLRS	PIQRKNAMFN		
	TYYALAVSVV	TAISGSSLAH	PQRKISMTYV	H S A V L A G G V A		
	VGTSCHLIPS	PWLAMVLGLV	AGLISIGGAK	CLPVCCNRVL		
	GIHHISVMHS	IFSLLGLLGE	ITYIVLLVLH	ΤΥΨΝGΝGΜΙG		
	FQVLLSIGEL	SLAIVIALTS	GLLTGLLLNL	КІШКАРНУАК		
	YFDDQVFWKF	PHLAVGF				
Appearance	Lyophilized powder.					
Formulation						
Formulation	Lyophilized from a 0.22 μ m filtered solution of Tris/PBS-based buffer, 6% Trehalose, pH 8.0.					
Endetavia Laval						
Endotoxin Level	<1 EU/µg, determined by LAL method.					
Deserveititetien						
Reconsititution	It is not recommended to reconstitute to a concentration less than 100 μ g/mL in ddH ₂ O. 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 & Stobility	Stared at 20°C for 2 years	Charad at 20°C for 2 years After reconstitution it is stable at 4°C for 1 years or 20°C for langer (with semi-semi-semi-semi-semi-semi-semi-semi-				
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).					
	recommended to freeze aliquots at -20°C or -80°C for extended storage.					
Chinning	Deem temperature in centinental U.C. meuwenu elecultere					
Shipping	Room temperature in continental US; may vary elsewhere.					

DESCRIPTION

Background

RHCE, an integral component of the ankyrin-1 complex, plays a crucial role in preserving the stability and shape of the erythrocyte membrane. Within this multiprotein assembly, RHCE functions as the primary membrane attachment site for ANK1 when associated with RHAG, contributing to the structural integrity of erythrocytes. Additionally, RHCE is implicated in potential roles related to ammonium and carbon dioxide transport through its heterotrimeric form. The heterotrimeric configuration involves interaction between a RHCE monomer and a RHAG homodimer. As part of the larger ankyrin-1 complex in the erythrocyte membrane, which also includes ANK1, RHAG, SLC4A1, EPB42, GYPA, GYPB, and AQP1, RHCE collaborates to maintain the overall stability and shape of these vital blood cells. The interaction between RHCE and ANK1, facilitated via the N- and C-terminal domains, serves as the primary membrane attachment site for ANK1, underscoring the coordinated efforts within the ankyrin-1 complex in sustaining erythrocyte membrane architecture.

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