Proteins

Product Data Sheet

Transferrin Protein, Rat (HEK293, His)

Cat. No.: HY-P73454

Synonyms: Serotransferrin; Transferrin; Beta-1 metal-binding globulin; Siderophilin; TF; TRF

Species:

Source: HEK293

Accession: P12346 (V20-S698)

Gene ID: 24825

Molecular Weight: Approximately 89 kDa

PROPERTIES

PROPERTIES				
AA Sequence				
	V P D K T V K W C A	VSEHENTKCI	SFRDHMKTVL	PADGPRLACV
	KKTSYQDCIK	AISGGEADAI	TLDGGWVYDA	GLTPNNLKPV
	AAEFYGSLEH	PQTHYLAVAV	VKKGTDFQLN	QLQGKKSCHT
	GLGRSAGWII	PIGLLFCNLP	EPRKPLEKAV	ASFFSGSCVP
	CADPVAFPQL	CQLCPGCGCS	PTQPFFGYVG	AFKCLRDGGG
	DVAFVKHTTI	FEVLPQKADR	DQYELLCLDN	TRKPVDQYED
	CYLARIPSHA	VVARNGDGKE	DLIWEILKVA	QEHFGKGKSK
	DFQLFGSPLG	KDLLFKDSAF	GLLRVPPRMD	YRLYLGHSYV
	TAIRNQREGV	CPEGSIDSAP	VKWCALSHQE	RAKCDEWSVS
	SNGQIECESA	ESTEDCIDKI	VNGEADAMSL	DGGHAYIAGQ
	CGLVPVMAEN	YDISSCTNPQ	SDVFPKGYYA	VAVVKASDSS
	INWNNLKGKK	SCHTGVDRTA	GWNIPMGLLF	SRINHCKFDE
	FFSQGCAPGY	KKNSTLCDLC	IGPAKCAPNN	REGYNGYTGA
	FQCLVEKGDV	AFVKHQTVLE	$N\;T\;N\;G\;K\;N\;T\;A\;A\;W$	AKDLKQEDFQ
	LLCPDGTKKP	VTEFATCHLA	QAPNHVVVSR	KEKAARVSTV
	LTAQKDLFWK	GDKDCTGNFC	LFRSSTKDLL	FRDDTKCLTK
	LPEGTTYEEY	LGAEYLQAVG	NIRKCSTSRL	LEACTFHKS
Biological Activity	gical Activity Measured in a serum-free cell proliferation assay using MCF-7 human breast cancer cells. The ED ₅₀ for this effect is typic			
	143.5 ng/mL, correspondi	ing to a specific activity is 6.9	969×10 ³ units/mg.	
Appearance	Lyophilized powder			
Formulation	Lyophilized from a 0.2 μm filtered solution of PBS, pH 7.2.			
Endotoxin Level	<1 FILlius, determined by LAL method			
Liidotoxiii Levet	<1 EU/μg, determined by LAL method.			
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 a carrier protein (0.1% BSA, 5% HSA, 10% FBS or 5% Trehalose).			
Storage & Stability	Stored at -20°C for 2 years	s. After reconstitution, it is st	able 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

Transferrin, a crucial iron-binding transport protein, demonstrates the ability to bind two Fe(3+) ions in conjunction with an anion, typically bicarbonate. Its primary function involves facilitating the transport of iron from sites of absorption and heme degradation to those designated for storage and utilization within the body. Beyond its fundamental role in iron homeostasis, serum transferrin may also contribute to the stimulation of cell proliferation. Structured as a monomer, transferrin's versatile properties underscore its significance in maintaining the delicate balance of iron distribution and participating in cellular processes vital for overall physiological function.

Caution: Product has not been fully validated for medical applications. For research use only.

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