Proteins

Product Data Sheet



Tapasin Protein, Human (HEK293, His)

Cat. No.: HY-P73619

NGS17; TAPA; Tapasin; TAPATAP-associated protein; TPN; TPSN Synonyms:

Species: Human Source: HEK293

Accession: O15533 (G21-V414)

Gene ID: 6892

Molecular Weight: Approximately 45-50 kDa due to the glycosylation.

PROPERTIES

AA Sequence					
78 Cocquerice	GPAVIECWFV	EDASGKGLAK	RPGALLLRQG	PGEPPRPDL	
	DPELYLSVHD	PAGALQAAFR	RYPRGAPAPH	CEMSRFVPLP	
	ASAKWASGLT	PAQNCPRALD	GAWLMVSISS	PVLSLSSLLR	
	PQPEPQQEPV	LITMATVVLT	VLTHTPAPRV	RLGQDALLDL	
	SFAYMPPTSE	AASSLAPGPP	PFGLEWRRQH	LGKGHLLLAA	
	TPGLNGQMPA	AQEGAVAFAA	WDDDEPWGPW	TGNGTFWLPT	
	VQPFQEGTYL	ATIHLPYLQG	QVTLELAVYK	PPKVSLMPAT	
	LARAAPGEAP	PELLCLVSHF	YPSGGLEVEW	ELRGGPGGRS	
	QKAEGQRWLS	ALRHHSDGSV	SLSGHLQPPP	VTTEQHGARY	
	ACRIHHPSLP	ASGRSAEVTL	EVAGLSGPSL	EDSV	
Appearance	Lyophilized powder				
Formulation	Lyophilized from a 0.2 μm filtered solution of PBS, pH 7.4.				
Endotoxin Level	<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	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.				

DESCRIPTION

Shipping

Background

Tapasin protein assumes a pivotal role in the intricate processes of MHC class I assembly, specifically in the association with transporter associated with antigen processing (TAP) and the formation of MHC class I with peptides during peptide loading.

Room temperature in continental US; may vary elsewhere.

Forming a heterodimer with PDIA3 through disulfide linkage, tapasin becomes an obligatory mediator in the interaction among newly assembled MHC class I molecules, calreticulin, PDIA3, and TAP. Notably, up to four MHC class I/tapasin complexes bind to a single TAP, as documented in various studies. Furthermore, tapasin exhibits an additional interaction with the HLA-G-B2M complex, a critical engagement that is essential for the loading of high-affinity peptides, elucidating its multifaceted role in the orchestration of MHC class I antigen presentation.

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

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