

Product Data Sheet

TALDO1 Protein, Human (HEK293, His)

Cat. No.:	HY-P71351
Synonyms:	Transaldolase; TALDO1; TAL; TALDO; TALDOR
Species:	Human
Source:	HEK293
Accession:	P37837 (M1-K337)
Gene ID:	6888
Molecular Weight:	Approximately 38.0 kDa

PROPERTIES

AA Sequence	MSSSPVKRQR	MESALDQLKQ	FTTVVADTGD	FHAIDEYKPQ	
	DATTNPSLIL	АААQМРАҮQЕ	LVEEAIAYGR	K L G G S Q E D Q I	
	KNAIDKLFVL	FGAEILKKIP	GRVSTEVDAR	LSFDKDAMVA	
	RARRLIELYK	EAGISKDRIL	IKLSSTWEGI	QAGKELEEQH	
	GIHCNMTLLF	SFAQAVACAE	AGVTLISPFV	GRILDWHVAN	
	TDKKSYEPLE	DPGVKSVTKI	Y N Y Y K K F S Y K	TIVMGASFRN	
	TGEIKALAGC	DFLTISPKLL	GELLQDNAKL	VPVLSAKAAQ	
	ASDLEKIHLD	EKSFRWLHNE	DQMAVEKLSD	GIRKFAADAV	
	KLERMLTERM	FNAENGK			
Biological Activity	The enzyme activity of thi	s recombinant protein is tes	ting in progress, we cannot o	offer a guarantee yet.	
Appearance	Solution.				
Formulation	Supplied as a 0.2 µm filter	red solution of 20 mM Tris-H	Cl, 10% Glycerol, pH 8.0.		
Endotoxin Level	<1 EU/µg, determined by LAL method.				
Reconsititution	N/A				
Storage & Stability	Stored at -80°C for 1 year. extended storage. Avoid r	It is stable at -20°C for 3 mo epeated freeze-thaw cycles.	nths after opening. It is reco	mmended to freeze aliquots at -8	0°C for
Shipping	Shipping with dry ice.				

DESCRIPTION	
Background	The TALDO1 protein is a key enzyme in the pentose phosphate pathway, catalyzing the rate-limiting step of the non- oxidative phase. This enzyme facilitates the reversible conversion of sedoheptulose-7-phosphate and D-glyceraldehyde 3-

phosphate into erythrose-4-phosphate and beta-D-fructose 6-phosphate. By regulating the flow of metabolites through the pentose phosphate pathway, TALDO1 plays a crucial role in generating ribose-5-phosphate and NADPH, essential for nucleotide biosynthesis and cellular redox balance, respectively. Moreover, TALDO1 exhibits additional regulatory functions by altering its subcellular localization between the nucleus and the cytoplasm, suggesting its involvement in the coordination of various metabolic pathways.

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

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