Recombinant Human Transaldolase 1, His-tagged

Cat. No. TALDO1-2752H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant human TALDO1, fused to His-tag at N-terminus, was expressed in*E.coli*and purified by using conventional chromatography. MW =39.7 kDa(357aa), confirmed by MALDI-TOF.
Species	Human
Source	E.coli
Description	TALDO1 is a key enzyme of the non-oxidative pentose phosphate pathway providing ribose-5-phosphate for nucleic acid synthesis and NADPH for lipid biosynthesis. This protein transfers a dihydroxyacetone group from donor compounds (fructose 6-phosphate or sedoheptulose 7-phosphate) to aldehyde acceptor compounds. It is expressed at selectively high levels in oligodendrocytes of the brain. Deficiency of TALDO1 causes accumulation of erythritol, D-arabitol, and ribitol.
Sequences Of Amino Acids	MGSSHHHHHH SSGLVPRGSH MSSSPVKRQR MESALDQLKQ FTTVVADTGD FHAIDEYKPQ DATTNPSLIL AAAQMPAYQE LVEEAIAYGR KLGGSQEDQI KNAIDKLFVL FGAEILKKIP GRVSTEVDAR LSFDKDAMVA RARRLIELYK EAGISKDRIL IKLSSTWEGI QAGKELEEQH GIHCNMTLLF SFAQAVACAE AGVTLISPFV GRILDWHVAN TDKKSYEPLE DPGVKSVTKI YNYYKKFSYK TIVMGASFRN TGEIKALAGC DFLTISPKLL GELLQDNAKL VPVLSAKAAQ ASDLEKIHLD EKSFRWLHNE DQMAVEKLSD GIRKFAADAV KLERMLTERM FNAENGK

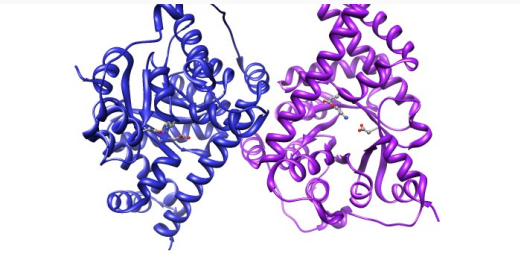
Tel: 1-631-559-9269 1-516-512-3133
Email: info@creative-biomart.com Fax: 1-631-938-8127
45-1 Ramsey Road, Shirley, NY 11967, USA

Purity	> 90% by SDS – PAGE.
Form	Liquid. In 20 mM Tris-HCl Buffer (pH 8.0) containing 10% Glycerol.
Concentration	1 mg/ml (determined by Bradford assay).
Storage	Can be stored at +4°C short term (1-2 weeks). For long term storage, aliquot and store at -20°C or -70°C. Avoid repeated freezing and thawing cycles.

GENE INFORMATION

Gene Name	TALDO1 transaldolase 1 [Homo sapiens]
Synonyms	TALDO1; transaldolase 1; TAL; TALH; TAL-H; TALDOR; transaldolase; glycerone transferase; dihydroxyacetone transferase; EC 2.2.1.2;TALDO
Gene ID	6888
mRNA Refseq	NM_006755
Protein Refseq	NP_006746
MIM	602063
UniProt ID	P37837
Chromosome Location	11p15.5-p15.4
Pathway	Metabolic pathways; Pentose phosphate pathway

Tel: 1-631-559-9269 1-516-512-3133
Email: info@creative-biomart.com Fax: 1-631-938-8127
45-1 Ramsey Road, Shirley, NY 11967, USA

Function	monosaccharide binding; protein binding; transaldolase activity; transferase activity
Crystallographic structure of human transaldolase.	

Tel: 1-631-559-9269 1-516-512-3133
Email: info@creative-biomart.com Fax: 1-631-938-8127
45-1 Ramsey Road, Shirley, NY 11967, USA