

AR09604PU-N**Human Transaldolase (TALDO1) (1-337, His-tag) - Purified****Alternate names:**

TAL, TALDO, TALDOR

Quantity:

0.1 mg

Concentration:

1.0 mg/ml (determined by Bradford assay)

Background:

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.

Uniprot ID:[P37837](#)**NCBI:**[NP_006746](#)**GeneID:**[6888](#)**Species:**

Human

Source:

E. coli

Format:**State:** Liquid purified protein**Purity:** >90% by SDS-PAGE**Buffer System:** 20 mM Tris-HCl Buffer (pH 8.0) containing 10% Glycerol**Description:**

Recombinant human TALDO1, fused to His-tag at N-terminus, was expressed in E.coli and purified by using conventional chromatography.

AA Sequence:

MGSSHHHHHH SSGLVPRGSH MSSSPVKRQR MESALDQLKQ FTTVVADTGD FHAIDEYKPQ
DATTNPSLIL AAAQMPAYQE LVEEAIAYGR KLGGSQEDQI KNAIDKLFVL FGAEILKKIP
GRVSTEVDAR LSFQKAMVA RARRLIELYK EAGISKDRIL IKLSSTWEGI QAGKELEEQH
GIHCNMTLLF SFAQAVACAE AGVTLISPFV GRILDWHVAN TDKKSYEPLD DPGVKSVTKI
YNYKKFSYK TIVMGASFRN TGEIKALAGC DFLTISPILL GELLQDNAKL VPVLSAKAAQ
ASDLEKIHLD EKSFRLHNE DQMAVEKLSL GIRKFAADAV KLERMLTERM FNAENGL

Molecular weight: 39.7 kDa (357aa), confirmed by MALDI-TOF**Storage:**

Store undiluted at 2-8°C for up to two weeks or (in aliquots) at -20°C or -70°C for longer.

Avoid repeated freezing and thawing.

Shelf life: one year from despatch.

General Readings:

Sprenger GA., et al. (2009) Int J Biochem Cell Biol. 41(7):1482-94.

Saudubray JM., et al (2006) J Pediatr. 149(5):713-7.

Pictures:

Recombinant human TALDO1, 1-337aa,
His-tagged

