

TALDO1, 1-337aa, Human, His tag, E.coli

Cat.NO.: TP04141

3th Edition

Synonyms:TAL, TAL-H, TALDOR, TALH, TALDO1, Transaldolase 1

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

Form:Liquid. In 20 mM Tris-HCl Buffer (pH 8.0) containing 10% Glycerol

Molecular Weight:39.7 kDa(357aa), confirmed by MALDI-TOF

Sequences:

MGSSHHHHHSSGLVPRGSHMSSSPVKRQRMESALDQLKQFTTVVADTGDFHAIDEYKPQDATTNPSLILAAAQM
PAYQELVEEAIAYGRKLGGSQEDQIKNAIDKLFVLFGAIEILKKIPGRVSTEV DARLSFDK DAMVARARRLIELYKEAGI
SKDRILIKLSSTWEGIQAGKELEEQHG IHCNM TLLFSFAQAVACAEAGVT LISPFVGRILDWHVANTDKKSYEPLDP
GVKSVTKIYNYKKFSYKTIVMGASFRNTGEIKALAGCDFLTISP KLLGELLQD NAKLVPVLSAKAAQASDLEKIHLDE
KSFRWLHNEDQMAVEKLS DGIRKFAADAVKLERMLTERMFNAEN GK

Purity:> 95% by HPLC

Concentration:1 mg/ml (determined by Bradford assay)

Endotoxin Level:<1.0 EU per 1 ug of protein (determined by LAL method)

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.