

## Product datasheet for **AR09604PU-L**

### Transaldolase (TALDO1) (1-337, His-tag) Human Protein

#### Product data:

Product Type:	Recombinant Proteins
Description:	Transaldolase (TALDO1) (1-337, His-tag) human recombinant protein, 0.5 mg
Species:	Human
Expression Host:	E. coli
Expression cDNA Clone or AA Sequence:	<u>MGSSHHHHHH SGLVPRGSH</u> MSSSPVKRQR MESALDQLKQ FTTVADTGD FHAIDEYKPKQ DATTNPSLIL AAAQMPAYQE LVEEAIAYGR KLGGSQEDQI KNAIDKLFVL FGAEILKKIP GRVSTEVDAR LSFDKDAMVA RARRLIELYK EAGISKDRIL IKLSSTWEGI QAGKELEEQH GIHCNMTLLF SFAQAVACAE AGVTLISPFV GRILDWHVAN TDKKSYEPLD DPGVKSVTKI YNYYKKFSYK TIVMGASFRN TGEIKALAGC DFLTISP KLL GELLQDNAKL VPVLSAKAAQ ASDLEKIHLD EKSFRLW HNE DQMAVEKLS D GIRKFAADAV KLERMLTERM FNAENGK
Tag:	His-tag
Predicted MW:	39.7 kDa
Concentration:	lot specific
Purity:	>90% by SDS-PAGE
Buffer:	Presentation State: Purified State: Liquid purified protein Buffer System: 20 mM Tris-HCl Buffer (pH 8.0) containing 10% Glycerol
Preparation:	Liquid purified protein
Protein Description:	Recombinant human TALDO1, fused to His-tag at N-terminus, was expressed in E.coli and purified by using conventional chromatography.
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.
Stability:	Shelf life: one year from despatch.
RefSeq:	<u><a href="#">NP_006746</a></u>
Locus ID:	6888
UniProt ID:	<u><a href="#">P37837</a></u> , <u><a href="#">A0A140VK56</a></u>
Cytogenetics:	11p15.5
Synonyms:	TAL; TAL-H; TALDOR; TALH



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**Summary:**

Transaldolase 1 is a key enzyme of the nonoxidative pentose phosphate pathway providing ribose-5-phosphate for nucleic acid synthesis and NADPH for lipid biosynthesis. This pathway can also maintain glutathione at a reduced state and thus protect sulfhydryl groups and cellular integrity from oxygen radicals. The functional gene of transaldolase 1 is located on chromosome 11 and a pseudogene is identified on chromosome 1 but there are conflicting map locations. The second and third exon of this gene were developed by insertion of a retrotransposable element. This gene is thought to be involved in multiple sclerosis. [provided by RefSeq, Jul 2008]

**Protein Families:**

Druggable Genome

**Protein Pathways:**

Metabolic pathways, Pentose phosphate pathway

**Product images:**