

TALDO1 Human

Description: TALDO1 Human Recombinant protein produced in E.Coli is a single, non-glycosylated, polypeptide chain containing 357 amino acids (1-337) and having a molecular mass of 39.7 kDa. TALDO1 is fused to 20 amino acid His Tag at N-terminus and is purified by proprietary chromatographic techniques.

Catalog #: ENPS-262

For research use only.

Synonyms: TAL, TAL-H, TALDOR, TALH, TALDO1.

Source: Escherichia Coli.

Physical Appearance: Sterile filtered colorless solution.

Amino Acid Sequence: MGSSHHHHHH SSGLVPRGSH MSSSPVKRQR MESALDQLKQ
FTTVVADTGD FHAIDEYKPK DATTNPSSL AAAQMPAYQE LVEEAIAYGRKLGGSQEDQI
KNAIDKLFVL FGAEILKKIP GRVSTEV DARLSFDKDAMVA RARRLIELYK EAGISKDRIL
IKLSSTWEGI QAGKELEEQHGHCNMTLLF SFAQAVACAE AGVTLISPFV GRILDWHVAN
TDKKSYPELE DPGV

Purity: Greater than 90.0% as determined by SDS-PAGE.

Formulation:

TALDO1 1mg/ml protein solution contains 20 mM Tris-HCl buffer (pH 8.0) and 10% glycerol.

Stability:

Store at 4°C if entire vial will be used within 2-4 weeks. Store, frozen at -20°C for longer periods of time. For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA). Avoid multiple freeze-thaw cycles.

Usage:

NeoBiolab's products are furnished for LABORATORY RESEARCH USE ONLY. They may not be used as drugs, agricultural or pesticidal products, food additives or household chemicals.

Introduction:

TALDO1 is a important enzyme of the non-oxidative pentose phosphate pathway supplying ribose-5-phosphate for nucleic acid synthesis and NADPH for lipid biosynthesis. TALDO1 delivers a dihydroxyacetone group from donor compounds (fructose 6-phosphate or sedoheptulose 7-phosphate) to aldehyde acceptor compounds. TALDO1 is expressed at selectively great levels in oligodendrocytes of the brain. TALDO1 Deficiency results in accumulation of erythritol, D-arabitol, and ribitol.

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