

Product datasheet for PH302652

Triosephosphate isomerase (TPI1) (NM_000365) Human Mass Spec Standard

Product data:

Product Type:	Mass Spec Standards
Description:	TPI1 MS Standard C13 and N15-labeled recombinant protein (NP_000356)
Species:	Human
Expression Host:	HEK293
Expression cDNA Clone or AA Sequence:	RC202652
Predicted MW:	26.7 kDa
Protein Sequence:	>RC202652 protein sequence Red=Cloning site Green=Tags(s) MAPSRKFFVGGNWKMNGRKQSLGELIGTLNAAKVPADTEVVCAPPTAYIDFARQKLDPKIAVAAQNCYKV TNGAFTGEISPGMIKDCGATWVVLGHSERRHVFGESEDELIGQKVAHALAEGLGVIACIGEKLDEREAGIT EKVVFEQTKVIADNVKDWKSVVLAIEPVVAIGTGKTATPQQAQEVHEKLRGWLKSNVSDAVAQSTRIIYG GSVTGATCKELASQPDVDGFLVGGASLKPEFVDIINAKQ TRTRPLEQKLI SEEDLAANDILDYKDDDDKV
Tag:	C-Myc/DDK
Purity:	> 80% as determined by SDS-PAGE and Coomassie blue staining
Concentration:	>0.05 µg/µL as determined by microplate BCA method
Labeling Method:	Labeled with [U- 13C6, 15N4]-L-Arginine and [U- 13C6, 15N2]-L-Lysine
Buffer:	25 mM Tris-HCl, 100 mM glycine, pH 7.3
Storage:	Store at -80°C. Avoid repeated freeze-thaw cycles.
Stability:	Stable for 3 months from receipt of products under proper storage and handling conditions.
RefSeq:	NP_000356
RefSeq Size:	1366
RefSeq ORF:	747
Synonyms:	HEL-S-49; TIM; TPI; TPID
Locus ID:	7167
UniProt ID:	P60174 , Q53HE2 , V9HWK1



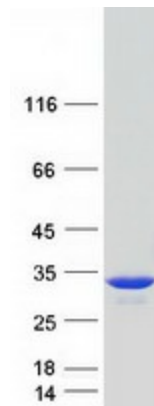
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Cytogenetics: 12p13.31

Summary: This gene encodes an enzyme, consisting of two identical proteins, which catalyzes the isomerization of glyceraldehydes 3-phosphate (G3P) and dihydroxy-acetone phosphate (DHAP) in glycolysis and gluconeogenesis. Mutations in this gene are associated with triosephosphate isomerase deficiency. Pseudogenes have been identified on chromosomes 1, 4, 6 and 7. Alternative splicing results in multiple transcript variants. [provided by RefSeq, Apr 2009]

Protein Pathways: Fructose and mannose metabolism, Glycolysis / Gluconeogenesis, Inositol phosphate metabolism, Metabolic pathways

Product images:



Coomassie blue staining of purified TPI1 protein (Cat# [TP302652]). The protein was produced from HEK293T cells transfected with TPI1 cDNA clone (Cat# [RC202652]) using MegaTran 2.0 (Cat# [TT210002]).