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TPI1, 1-249aa, Human, His-tag, E.coli (Bioactivity Validated)

产品货号: TP04281

第三版

别名:triosephosphate isomerase, TPI

描述:TPI1 (Triosephosphate isomerase) belongs to the triosephosphate isomerase family. TPI1 catalyzes the isomerization of glyceraldehydes 3-phosphate (G3P) and dihydroxy-acetone phosphate (DHAP) in glycolysis and gluconeogenesis. Defects in TPI1 are the cause of triosephosphate isomerase deficiency (TPI deficiency). TPI deficiency is an autosomal recessive disorder. It is the most severe clinical disorder of glycolysis. It is associated with neonatal jaundice, chronic hemolytic anemia, progressive neuromuscular dysfunction, cardiomyopathy and increased susceptibility to infection. Recombinant human TPI1 protein, fused to His-tag at N-terminus, was expressed in E.coli and purified by using conventional chromatography techniques.

配方:Liquid. In 20mM Tris-HCl buffer (pH8.0) containing 10% glycerol, 1mM DTT.

分子量:28.8kDa (269aa) confirmed by MALDI-TOF

序列:

MGSSHHHHHSSGLVPRGSHMAPSRKFFVGGNWKMNGRKQSLGELIGTLNAAKVPADTEVVCAPPTAYIDFARQKLDP
KIAVAAQNCYKVTNGAFTGEISPGMIKDCGATWVVLGHSERRHVFGESEDELIGQKVAHALAEGLVVIACIGEKLDEREA
GITEKVVFEQTKVIADNVKDWKVVLAYEPVWAIGTGKTATPQQAQEVHEKLRGWLKSNVSDAVAQSTRIIYGGSVTGA
TCKELASQPDVDGFLVGGASLKPEFVDIINAKQ

纯度:> 95% by HPLC

浓度:0.5mg/ml (determined by Bradford assay)

内毒素:<1.0 EU per 1 ug of protein (determined by LAL method)

存储: +4 ° C 保存 (1-2 周). 长期保存在 -20 ° C 或者 -70 ° C. 避免反复冻融.