Data Sheet (Cat.No.TMPY-04773)

TargetMol

TPK1 Protein, Human, Recombinant (His)

General Information

Synonyms: THMD5;PP20;HTPK1;thiamin pyrophosphokinase 1

Protein Construction: A DNA sequence encoding the human TPK1 (AAH68460.1) (Met1-Ser243) was expressed with a polyhistidine tag at the N-terminus. Predicted N terminal: His

Species: Human

Expression Host: E. coli

Accession: AAH68460.1

Molecular Weight: 29.5 kDa (predicted); 27-32 kDa (reducing conditions)

QC Testing

Biological Activity: Kinase activity untested

Purity: > 90 % as determined by SDS-PAGE

Endotoxin: Please contact us for more information.

Formulation: Supplied as sterile PBS, pH 7.4.

Preparation and Storage

Reconstitution:

A Certificate of Analysis (CoA) containing reconstitution instructions is included with the products. Please refer to the CoA for detailed information.

Stability & Storage:

It is recommended to store the product under sterile conditions at -20°C to -80°C. Samples are stable for up to 12 months. Please avoid multiple freeze-thaw cycles and store products in aliquots.

Actual storage temperature shall be subject to the COA.

Shipping:

Proteins are shipped with blue ice.

Protein Background

Thiamine pyrophosphokinase (TPK) produces thiamine pyrophosphate, a cofactor for a number of enzymes, including pyruvate dehydrogenase and 2-ketoglutarate dehydrogenase. Episodic encephalopathy type thiamine metabolism dysfunction (OMIM 614458) due to TPK1 mutations is a recently described rare disorder. The genomic variations in the fetal and maternal TPK1 gene could contribute to the variability of birth weight in normal humans.

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