

# Recombinant Human Thiamin pyrophosphokinase 1(TPK1)

Catalog No: #AP77058

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Package Size: #AP77058-1 20ug #AP77058-2 100ug #AP77058-3 1mg

## Description

|                       |   |
|-----------------------|---|
| Product Name          | Recombinant Human Thiamin pyrophosphokinase 1(TPK1)   |
| Brief Description     | Recombinant Protein   |
| Host Species          | E.coli  |
| Purification          | Greater than 90% as determined by SDS-PAGE.   |
| Immunogen Description | Expression Region:1-243aaSequence Info:Full Length  |
| Other Names           | Placental protein 20  |
| Accession No.         | Q9H3S4  |
| Uniprot               | Q9H3S4  |
| GeneID                | 27010;  |
| Calculated MW         | 54.3 kDa  |
| Tag Info              | N-terminal GST-tagged   |
| Target Sequence       | MEHAFTPLEPLLSTGNLKYCLVILNQPLDNYFRHLWKNKALLRACADGGANRLYDITEGERESFLPEFINGDFDSI<br>RPEVREYYATKGCCELISTPDQDHTDFTKCLKMLQKKIEEKDLKVDVIVTLGGLAGRFDQIMASVNTLFQATHITP<br>FPIIIQEESLIYLLQPGKHLHVDVTGMEGDWCGLIPVGPQCMQVTTTGLKWNLNDVLAFGTLVSTSNITYDGS<br>GVVTVETDHPDLLWTMAIKS   |
| Formulation           | Tris-based buffer50% glycerol   |
| Storage               | The shelf life is related to many factors, storage state, buffer ingredients, storage temperature and the stability of the protein itself.<br><br>Generally, the shelf life of liquid form is 6 months at -20°C,-80°C. The shelf life of lyophilized form is 12 months at -20°C,-80°C.Notes:Repeated freezing and thawing is not recommended. Store working aliquots at 4°C for up to one week. |

## Background

Catalyzes the phosphorylation of thiamine to thiamine pyrophosphate. Can also catalyze the phosphorylation of pyrithiamine to pyrithiamine pyrophosphate.

## References

"Isolation and characterization of a human thiamine pyrophosphokinase cDNA."  
Nosaka K., Onozuka M., Kakazu N., Hibi S., Nishimura H., Nishino H., Abe T.  
Biochim. Biophys. Acta 1517:293-297(2001) Research Topic:Others

Note: This product is for in vitro research use only