

# Recombinant Mouse TPH1 Protein Product Manual

## 1. Product Basic Information

**Product No.:** REP08527

**Protein Name:** L-Tryptophan Hydroxylase (TPH1)

**Aliases:** TPRH; TRPH; L-tryptophan hydroxylase

**UniProt ID:** P17752

**UniProt Link:** <https://www.uniprot.org/uniprotkb/P17752/entry>

**Species Source:** Mus musculus (Mouse)

**Expression System:** E.coli

**Protein Length:** Full Length (1-447aa)

**Molecular Weight:** 67.3kDa

**Protein Tag:** N-terminal 6xHis-SUMO-tagged

## 2. Amino Acid Sequence (1-447aa)

MIEDNKENKENDHSSERGRVTLIFSLNEVGGGLIKVLKIFQENHVSLHIESRKSKQ  
RNSEFEIFVDCDISREQLNDIFPLLKSHATVLSVDSPDQLTAKEDVMETVPWFPPKIS  
DLDFCANRVLLYGSELDADHPGFKDNVYRRRRKYFAELAMNYKHGDPIPKIEFTEE  
EIKTWGTIFRELNKLYPTHACREYLRNLPKSKYCYREDNIPQLEDVSNFLKERTGF  
SIRPVAGYLSRPDFLSGLAFRVFHCTQYVRHSSDPLYTPEPDTCHELLGHVPLLAEP  
SFAQFSQEIGLASLGASEETVQKLATCYFFTVEFGLCKQDQGLRVFGAGLLSSISEL  
KHALSGHAKVKPFDPKIACKQECLITSFQDVYFVSESFEDAKEKMREFAKTVKRPFG  
LKYNPYTQSVQVLRDTSITSAMNELRYDLVDISDALARVTRWPSV

## 3. Storage Buffer

**Liquid Delivery Form:** Tris/PBS-based buffer with 5%-50% glycerol. Custom glycerol content is available upon customer request (please specify requirements when placing orders).

**Lyophilized Powder Delivery Form:** Pre-lyophilization buffer is Tris/PBS-based buffer containing 6% Trehalose.



## 4. Storage Conditions

Upon receipt, store the product at -20°C or -80°C. It is recommended to aliquot the protein for multiple uses to avoid repeated freeze-thaw cycles, which may cause protein denaturation and activity loss.

## 5. Product Description

This product is a recombinant Mouse TPH1 full length protein (1-447aa) expressed in E.coli. The protein is with 6xHis-SUMO tag at the N-terminus, which facilitates protein purification, detection and identification. TPH1, also known as TPRH or TRPH or L-tryptophan hydroxylase, is suitable for related in vitro functional assays, protein interaction studies, antibody preparation and other biomedical research applications.

## 6. Notes

- Repeated freezing and thawing of the product is strictly prohibited to ensure protein stability and biological activity.
- For special buffer component requirements, please submit a note when purchasing.
- This product is only for scientific research use, not for clinical diagnosis, treatment or commercial production purposes.