

Product datasheet for TP321254L

Tryptophan Hydroxylase (TPH1) (NM_004179) Human Recombinant Protein

Product data:

Product Type: Recombinant Proteins

Description: Recombinant protein of human tryptophan hydroxylase 1 (TPH1), 1 mg

Species: Human

Expression Host: HEK293T

Expression cDNA Clone or AA Sequence: >RC221254 representing NM_004179

Red=Cloning site Green=Tags(s)

MIEDNKENKDHSLEGRASLIFSLKNEVGGLIKALKIFQEKHVNLLHIESRKSRRNSEFEIFVDCDINR
EQLNDIFHLLKSHTNVLSVNLDPDNFTLKEDGMETVPWFPPKISDLHDCANRVLMYGSELDADHPGFKDNV
YRKRKYFADLAMNYKHGDPIPKVEFTEEEIKTWGTVFQELNKLYPTHACREYLKLNPLLSKYCGYREDN
IPQLEDVSNFLKERTGFSIRPVAGYLSRDFLSGLAFRVFCTQYVRHSSDPFYTPEDTCELLGHVPL
LAEPSFAQFSQEIGLASLGASEEAVQKLATCYFFTFEFLCKQDGGQLRVFGAGLLSSISELKHLSGHAK
VKPFDPKITCKQECLITTFQDVYFVSESFEDAKEKMREFTKTIKRPFGVKYNPYTRSIQILKDTKSITSA
MNELQHDLDVSDALAKVSRKPSI

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Tag: C-Myc/DDK

Predicted MW: 50.8 kDa

Concentration: >0.05 µg/µL as determined by microplate BCA method

Purity: > 80% as determined by SDS-PAGE and Coomassie blue staining

Buffer: 25 mM Tris-HCl, 100 mM glycine, pH 7.3, 10% glycerol

Preparation: Recombinant protein was captured through anti-DDK affinity column followed by conventional chromatography steps.

Note: For testing in cell culture applications, please filter before use. Note that you may experience some loss of protein during the filtration process.

Storage: Store at -80°C.

Stability: Stable for 12 months from the date of receipt of the product under proper storage and handling conditions. Avoid repeated freeze-thaw cycles.

RefSeq: [NP_004170](#)



[View online »](#)

Locus ID: 7166

UniProt ID: [P17752](#)

RefSeq Size: 1335

Cytogenetics: 11p15.1

RefSeq ORF: 1332

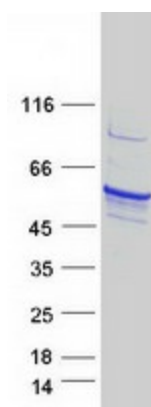
Synonyms: TPRH; TRPH

Summary: This gene encodes a member of the aromatic amino acid hydroxylase family. The encoded protein catalyzes the first and rate limiting step in the biosynthesis of serotonin, an important hormone and neurotransmitter. Mutations in this gene have been associated with an elevated risk for a variety of diseases and disorders, including schizophrenia, somatic anxiety, anger-related traits, bipolar disorder, suicidal behavior, addictions, and others.[provided by RefSeq, Apr 2009]

Protein Families: Druggable Genome

Protein Pathways: Metabolic pathways, Tryptophan metabolism

Product images:



Coomassie blue staining of purified TPH1 protein (Cat# [TP321254]). The protein was produced from HEK293T cells transfected with TPH1 cDNA clone (Cat# [RC221254]) using MegaTran 2.0 (Cat# [TT210002]).