

Product datasheet for PH321193

Tryptophan 5 hydroxylase 2 (TPH2) (NM_173353) Human Mass Spec Standard

Product data:

Product Type:	Mass Spec Standards
Description:	TPH2 MS Standard C13 and N15-labeled recombinant protein (NP_775489)
Species:	Human
Expression Host:	HEK293
Expression cDNA Clone or AA Sequence:	RC221193
Predicted MW:	56.1 kDa
Protein Sequence:	>RC221193 representing NM_173353 Red=Cloning site Green=Tags(s)

MQPAMMMFSSKYWARRGFS LDSAVPEEHQLLGSSTLNKPNKNSGKNDKGNKSSKREAAATESGKTAVVFSL
KNEVGGGLVKALRLFQEKRVNMVHIESRKSRRRSSEVEIFVDCECGKTEFNELIQLLKFTTIVTLNPPEN
IWTEEELEDVWPWFPRKISELDKCSHRVLMYGSELADHPGFKDNVYRQRKYFVDVAMGYGQPIPRV
EYTEETKTWGVVFRELSKLYPTHACREYLKNFPLLTKYCGYREDNVPQLEDVSMFLKERSGFTVRPVAG
YLSPRDFLAGLAYRVFHCTQYIRHGSDPLYTPEPDTCHELLGHVPLLADPKFAQFSQEIGLASLGASDED
VQKLATCYFFTIEFGLCKQEQQLRAYGALLSSIGELKHALSDKACVKAFDPKTTCLQECLITTFQEAYF
VSESFEEAKEKMRDFAKSI TRPFSVYFNPYTSIEILKDRSIEIENVVQDLRSDLNTVCDALNKMNOYLGI

TRTRPLEQKLI SEEDLAANDILDYKDDDDKV

Tag:	C-Myc/DDK
Purity:	> 80% as determined by SDS-PAGE and Coomassie blue staining
Concentration:	>0.05 µg/µL as determined by microplate BCA method
Labeling Method:	Labeled with [U- ¹³ C ₆ , ¹⁵ N ₄]-L-Arginine and [U- ¹³ C ₆ , ¹⁵ N ₂]-L-Lysine
Buffer:	25 mM Tris-HCl, 100 mM glycine, pH 7.3
Storage:	Store at -80°C. Avoid repeated freeze-thaw cycles.
Stability:	Stable for 3 months from receipt of products under proper storage and handling conditions.
RefSeq:	NP_775489
RefSeq Size:	2360
RefSeq ORF:	1470
Synonyms:	ADHD7; NTPH



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Locus ID: 121278

UniProt ID: [Q8IWU9](#)

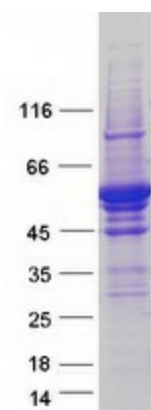
Cytogenetics: 12q21.1

Summary: This gene encodes a member of the pterin-dependent aromatic 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 may be associated with psychiatric diseases such as bipolar affective disorder and major depression. [provided by RefSeq, Feb 2016]

Protein Families: Druggable Genome

Protein Pathways: Metabolic pathways, Tryptophan metabolism

Product images:



Coomassie blue staining of purified TPH2 protein (Cat# [TP321193]). The protein was produced from HEK293T cells transfected with TPH2 cDNA clone (Cat# [RC221193]) using MegaTran 2.0 (Cat# [TT210002]).