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Product datasheet for TP507141

Tph1 (NM_009414) Mouse Recombinant Protein

Product data:

Product Type:	Recombinant Proteins
Description:	Purified recombinant protein of Mouse tryptophan hydroxylase 1 (Tph1), with C-terminal MYC/DDK tag, expressed in HEK293T cells, 20ug
Species:	Mouse
Expression Host:	HEK293T
Expression cDNA Clone or AA Sequence:	>MR207141 protein sequence Red=Cloning site Green=Tags(s) MIEDNKENKENKDHSSERGRVTLIFSLENEVGGLIKVLKIFQENHVSLLHIESRKSKQRNSEFEIFVDCD ISREQLNDIFPLLKSHATVLSVDSPDQLTAKEDVMETVPWFPKKISDLDFCANRVLLYGSELDADHPGFK DNVYRRRRKYFAELAMNYKHGDPIPKIEFTEEEIKTWGTIFRELNKLYPTHACREYLRNLPLLSKYCGYR EDNIPQLEDVSNFLKERTGFSIRPVAGYLSPRDFLSGLAFRVFHCTQYVRHSSDPLYTPEPDTCHELLGH VPLLAEPSFAQFSQEIGLASLGASEETVQKLATCYFFTVEFGLCKQDGQLRVFGAGLLSSISELKHALSG HAKVKPFDPKIACKQECLITSFQDVYFVSESFEDAKEKMREFAKTVKRPFGLKYNPYTQSVQVLRDTKSI TSAMNELRYDLDVISDALARVTRWPSV TRTRPLEQKLISEEDLAANDILDYKDDDDKV
Tag:	C-MYC/DDK
Predicted MW:	51.3 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
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 after receiving vials.
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_033440
Locus ID:	21990

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UniProt ID:	P17532, Q3UK52
RefSeq Size:	4581
Cytogenetics:	7 30.43 cM
RefSeq ORF:	1344
Synonyms:	Tph
Summary:	This gene encodes a member of the biopterin-dependent aromatic amino acid hydroxylase family. The encoded protein is one of two tryptophan hydroxylase enzymes that catalyze the first and rate limiting step in the biosynthesis of the hormone and neurotransmitter, serotonin. This gene is expressed in peripheral organs, while tryptophan hydroxylase 2 is expressed in neurons. The encoded protein is involved in the development of hypoxia-induced elevations in pulmonary pressures and pulmonary vascular remodeling, and has also been implicated as a regulator of immune tolerance. Disruption of this gene is associated with cardiac dysfunction. Alternative splicing results in multiple transcript variants. [provided by RefSeq, Feb 2013]