

Product datasheet for PH311218

Tyrosine Hydroxylase (TH) (NM_000360) Human Mass Spec Standard

Product data:

Product Type:	Mass Spec Standards
Description:	TH MS Standard C13 and N15-labeled recombinant protein (NP_000351)
Species:	Human
Expression Host:	HEK293
Expression cDNA Clone or AA Sequence:	RC211218
Predicted MW:	55.6 kDa
Protein Sequence:	>RC211218 protein sequence Red=Cloning site Green=Tags(s)

MPTPDATTPQAKGFRRRAVSELDKQAEAIMSPRFIGRRQSLIEDARKEREAAVAAAAAVPSEPGDPLEA
VAFEEKEGKAMNLLFSPRATKPSALSRVAVFETFEAKIHHLETRPAQRPRAGGPHLEYFVRLEVRRGD
LAALLSGVRQVSEEDVRSAPGPKVPWFPRKVSSELDKCHHLVTKFDPDLDLHPGFSDQVYRQRRLIAEIA
FQYRHGDPVPRVEYTAEEIATWKEVYTTKGLYATHACGEHLEAFALLERFSGYREDNIPQLEDVSRFLK
ERTGFQLRPVAGLLSARDFLASLAFRVFQCTQYIRHASSPMHSPEPDCHELLGHVPMADRTFAQFSQD
IGLASLGASDEEIEKLSTLYWFTVEFGLCKQNGEVKAYGAGLLSSYGELLHCLSEPEIRAFDPEAAAVQ
PYQDQTYQSVYFVSESFSDAKDKLRSYASRIQRPFVSKFDPYTLAIDVLDSPQAVRRSLEGVQDELDTLA
HALSAIG

SGPTRTRPLEQKLI 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:	<u>NP_000351</u>
RefSeq Size:	1817
RefSeq ORF:	1491



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Synonyms: DYT5b; DYT14; TYH

Locus ID: 7054

UniProt ID: [P07101](#)

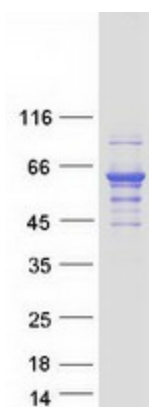
Cytogenetics: 11p15.5

Summary: The protein encoded by this gene is involved in the conversion of tyrosine to dopamine. It is the rate-limiting enzyme in the synthesis of catecholamines, hence plays a key role in the physiology of adrenergic neurons. Mutations in this gene have been associated with autosomal recessive Segawa syndrome. Alternatively spliced transcript variants encoding different isoforms have been noted for this gene. [provided by RefSeq, Jul 2008]

Protein Families: Druggable Genome

Protein Pathways: Metabolic pathways, Parkinson's disease, Tyrosine metabolism

Product images:



Coomassie blue staining of purified TH protein (Cat# [TP311218]). The protein was produced from HEK293T cells transfected with TH cDNA clone (Cat# [RC211218]) using MegaTran 2.0 (Cat# [TT210002]).