

## Datasheet for ABIN7317460 Tryptophan Hydroxylase 1 Protein (TPH1) (His tag)



Overview

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Quantity:	50 µg
Target:	Tryptophan Hydroxylase 1 (TPH1)
Origin:	Human
Source:	Escherichia coli (E. coli)
Protein Type:	Recombinant
Purification tag / Conjugate:	This Tryptophan Hydroxylase 1 protein is labelled with His tag.
Product Details	
Purpose:	Recombinant Human Tryptophan Hydroxylase 1/TPH1 Protein (His Tag)
Sequence:	lle 2-lle 444
Characteristics:	A DNA sequence encoding the human TPH1 (P17752-1) (Ile 2-Ile 444) was expressed, with a polyhistide tag at the N-terminus.
Purity:	> 95 % as determined by reducing SDS-PAGE.
Target Details	
Target:	Tryptophan Hydroxylase 1 (TPH1)
Alternative Name:	Tryptophan Hydroxylase 1/TPH1 (TPH1 Products)
Background:	Background: Tryptophan 5-hydroxylase 1, also known as Tryptophan 5-monooxygenase 1,
	Tryptophan hydroxylase 1, TPH1, TPH and TPRH, is an enzyme which belongs to the biopterin-
	dependent aromatic amino acid hydroxylase family. TPH1 contains one ACT domain.
	Tryptophan hydroxylase catalyzes the biopterin-dependent monooxygenation of tryptophan to

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	5-hydroxytryptophan (5HT), which is subsequently decarboxylated to form the neurotransmitter
	serotonin. It is the rate-limiting enzyme in the biosynthesis of serotonin. It is the rate-limiting
	enzyme in the biosynthesis of serotonin. TPH1 expression is limited to a few specialized
	tissues: raphe neurons, pinealocytes, mast cells, mononuclear leukocytes, beta-cells of the
	islets of Langerhans, and intestinal and pancreatic enterochromaffin cells. The tryptophan
	hydroxylase 1 (TPH1) gene is also reported to be associated with suicidal behavior.
	Polymorphisms of TPH1 may assist in identifying a subgroup of mood disorder patients that is
	at higher risk for suicidal behavior.
	Synonym: TPRH;TRPH
Molecular Weight:	52.7 kDa
Pathways:	Feeding Behaviour
Application Details	
Restrictions:	For Research Use only
Handling	
Format:	Lyophilized
Reconstitution:	Please refer to the printed manual for detailed information.
Buffer:	Lyophilized from sterile 20 mM Tris, 200 mM NaCl, 10 % glycerol, pH 8.0
Storage:	4 °C,-20 °C,-80 °C
Storage Comment:	Generally, lyophilized proteins are stable for up to 12 months when stored at -20 to -80°C.
	Reconstituted protein solution can be stored at 4-8°C for 2-7 days. Aliquots of reconstituted