

## Product datasheet

# Recombinant human Tryptophan Hydroxylase/TPH protein (Active) ab206448

[2 Images](#)

### Description

<b>Product name</b>	Recombinant human Tryptophan Hydroxylase/TPH protein (Active)	
<b>Biological activity</b>	<b>Assay Conditions:</b> Reaction was performed at room temperature in assay buffer containing 50 mM MOPS, pH 7.0, 60 µM tryptophan, 100 mM ammonium sulfate, 100 µM ferrous ammonium sulfate, 0.5 mM TCEP, 0.3 mM 6-methyl tetrahydropterin, 0.05 mg/ml catalase, 1 mM DTT and TPH1. Fluorescence signal was measured at Em360nm/Ex300nm.	
<b>Purity</b>	> 90 % SDS-PAGE. Affinity purified.	
<b>Expression system</b>	Escherichia coli	
<b>Accession</b>	<u><b>P17752</b></u>	
<b>Protein length</b>	Protein fragment	
<b>Animal free</b>	No	
<b>Nature</b>	Recombinant	
<b>Species</b>	Human	
<b>Sequence</b>	MHHHHHHVWPFPKKISDLDHCANRVLMYGSELDADHPG FKDNVYRKRKY FADLAMNYKHGDPIPKVEFTEEEIKTWGTVFQELNKLYPTH ACREYLKLN PLLSKYCGYREDNIPQLEDVSNFLKERTGFSIRPVAGYLS RDFSGLAF RVFHCTQYVRHSSDPFYTPEPDTHELLGHVPLLAEPSFA QFSQEIGLAS LGASEEAVQKLATCYFFTVEFGLCKQDQGLRVFGAGLLS SISELKHALSG HAKVKPFPDPKITCKQECLITTFQDVYFVSESFEDAKEKMR EFTKTIKRPFGVKYNPYTRSILKDKTSITSA	
<b>Predicted molecular weight</b>	37 kDa including tags	
<b>Amino acids</b>	105 to 420	
<b>Tags</b>	His tag N-Terminus	

### Specifications

Our **Abpromise guarantee** covers the use of **ab206448** in the following tested applications.

The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

<b>Applications</b>	SDS-PAGE Functional Studies
<b>Form</b>	Liquid
<b>Additional notes</b>	This product was previously labelled as Tryptophan Hydroxylase

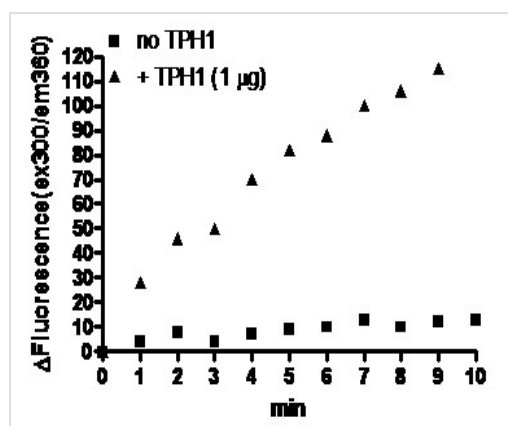
## Preparation and Storage

<b>Stability and Storage</b>	Shipped on Dry Ice. Store at -80°C. Avoid freeze / thaw cycle. pH: 8.00 Preservative: 1.16% Imidazole Constituents: 0.63% Tris HCl, 0.64% Sodium chloride, 0.02% Potassium chloride, 0.04% Tween, 20% Glycerol (glycerin, glycerine), 0.05% (R*,R*)-1,4-Dimercaptobutan-2,3-diol  Storing diluted enzyme is not recommended, if necessary, use carrier protein (BSA 0.1 – 0.5%). This product is an active protein and may elicit a biological response in vivo, handle with caution.
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## General Info

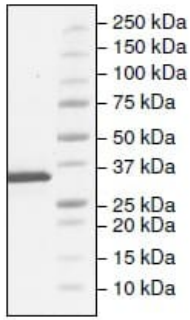
<b>Tissue specificity</b>	Isoform 2 seems to be less widely expressed than isoform 1.
<b>Pathway</b>	Aromatic compound metabolism; serotonin biosynthesis; serotonin from L-tryptophan: step 1/2.
<b>Sequence similarities</b>	Belongs to the bipterin-dependent aromatic amino acid hydroxylase family. Contains 1 ACT domain.

## Images



Activity assay using ab206448

Functional Studies - Recombinant human  
Tryptophan Hydroxylase/TPH protein (Active)  
(ab206448)



6-20% SDS-PAGE stained with Coomassie Blue.

Lane 1: ab206448 (5 µg)

Lane 2: Protein Marker

SDS-PAGE - Recombinant human Tryptophan  
Hydroxylase/TPH protein (Active) (ab206448)

**Please note:** All products are "FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC PROCEDURES"

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