

Recombinant Human TPH2 protein ab173061

Description	
Product name	Recombinant Human TPH2 protein
Purity	> 95 % SDS-PAGE. ab173061 is greater than 95% pure, as determined by SEC-HPLC and reducing SDS-PAGE. It is supplied as an 0.2 µM filtered solution.
Endotoxin level	< 1.000 Eu/µg
Expression system	Escherichia coli
Accession	<u>Q8IWU9</u>
Protein length	Full length protein
Animal free	No
Nature	Recombinant
Species	Human
Sequence	MQPAMMMFSSKYWARRGFSLDSAVPEEHQLLGSSTAST FLKLNKPNSGKN DDKGNKGSSKREAATESGKTAVVFSLKNEVGGLVKALRL FQEKRVNMVHI ESRKSRRRSSEVEIFVDCECGKTEFNELIQLLKFTTIVTLN PPENIWTE EELEDVPWFPRKISELDKCSHRVLMYGSELDADHPGFK DNVYRQRRKYF VDVAMGYKYGQPIPRVEYTEEETKTWGVVFRELSKLYPTH ACREYLKNFP LLTKYCGYREDNVPQLEDVSMFLKERSGFTVRPVAGYLS PRDFLAGLAYR VFHCTQYIRHGSDPLYTPEPDTCHELLGHVPLLADPKFAQ FSQEIGLASL GASDEDVQKLATCYFFTIEFGLCKQEGQLRAYGAGLLSSI GELKHALSDK ACVKAFDPKTTCLQECLITTFQEAYFVSESFEEAKEKMRD FAKSITRPFS VYFNPYTQSIELKDTRSIENVVQDLRSDLNTVCDALNKMN QYLGVDLQ SR
Predicted molecular weight	59 kDa including tags
Amino acids	1 to 490
Tags	His tag N-Terminus

**Additional sequence information** N terminal His tag sequence: MNHKVHHHHHH.

## Specifications

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Our **Abpromise guarantee** covers the use of **ab173061** 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>	HPLC
	SDS-PAGE

<b>Form</b>	Liquid
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## Preparation and Storage

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<b>Stability and Storage</b>	Shipped on Dry Ice. Store at -20°C or -80°C. Avoid freeze / thaw cycle. pH: 7.40 Constituent: 100% PBS
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## General Info

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<b>Tissue specificity</b>	Brain specific.
<b>Pathway</b>	Aromatic compound metabolism; serotonin biosynthesis; serotonin from L-tryptophan: step 1/2.
<b>Involvement in disease</b>	Genetic variation in TPH2 may influence susceptibility to major depressive disorder (MDD) [MIM:608516]. Defects in TPH2 are the cause of susceptibility to attention deficit-hyperactivity disorder type 7 (ADHD7) [MIM:613003]. ADHD is a neurobehavioral developmental disorder and is primarily characterized by the co-existence of attentional problems and hyperactivity, with each behavior occurring infrequently alone. Note=Naturally occurring variants of TPH2 with impaired enzyme activity could cause deficiency of serotonin production and result in an increased risk of developing behavioral disorders.
<b>Sequence similarities</b>	Belongs to the bipterin-dependent aromatic amino acid hydroxylase family. Contains 1 ACT domain.

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

## Our Abpromise to you: Quality guaranteed and expert technical support

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- Replacement or refund for products not performing as stated on the datasheet
- Valid for 12 months from date of delivery
- Response to your inquiry within 24 hours
- We provide support in Chinese, English, French, German, Japanese and Spanish
- Extensive multi-media technical resources to help you
- We investigate all quality concerns to ensure our products perform to the highest standards

If the product does not perform as described on this datasheet, we will offer a refund or replacement. For full details of the Abpromise, please visit <https://www.abcam.com/abpromise> or contact our technical team.

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