abcam

Product datasheet

Recombinant Human Dopamine beta Hydroxylase protein (His tag) ab276542

1 Image

Description

Product name	Recombinant Human Dopamine beta Hydroxylase protein (His tag)
Purity	> 95 % SDS-PAGE.
Endotoxin level	< 1.000 Eu/µg
Expression system	HEK 293 cells
Accession	P09172
Protein length	Protein fragment
Animal free	No
Nature	Recombinant
Species	Human
Sequence	VAIFLVILVA ALQGSAPRES PLPYHIPLDP EGSLELSWNV SYTQEAIHFQ LLVRRLKAGV LFGMSDRGEL ENADLVVLWT DGDTAYFADA WSDQKGQIHL DPQQDYQLLQ VQRTPEGLTL LFKRPFGTCD PKDYLIEDGT VHLVYGILEE PFRSLEAING SGLQMGLQRV QLLKPNIPEP ELPSDACTME VQAPNIQIPS QETTYWCYIK ELPKGFSRHH IIKYEPIVTK GNEALVHHME VFQCAPEMDS VPHFSGPCDS KMKPDRLNYC RHVLAAWALG AKAFYYPEEA GLAFGGPGSS RYLRLEVHYH NPLVIEGRND SSGIRLYYTA KLRRFNAGIM ELGLVYTPVM AIPPRETAFI LTGYCTDKCT QLALPPSGIH IFASQLHTHL TGRKVVTVLV RDGREWEIVN QDNHYSPHFQ EIRMLKKVVS VHPGDVLITS CTYNTEDREL ATVGGFGILE EMCVNYVHYY PQTQLELCKS AVDAGFLQKY FHLINRFNNE DVCTCPQASV SQQFTSVPWN SFNRDVLKAL YSFAPISMHC NKSSAVRFQG EWNLQPLPKV ISTLEEPTPQ CPTSQGRS
Predicted molecular weight	67 kDa including tags
Molecular weight information	The recombinant human DBH comprises 598 amino acids and has a predicted molecular mass of 67.3 kDa. The apparent molecular mass of the protein is approximately 68 kDa in SDS-PAGE under reducing conditions due to glycosylation.

Amino acids	26 to 603
Tags	His tag N-Terminus
Additional sequence information	Predicted N-terminus: His.

Specifications

Our **Abpromise guarantee** covers the use of **ab276542** in the following tested applications.

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

Applications	SDS-PAGE
Form	Lyophilized

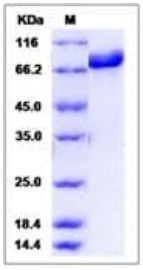
Preparation and Storage

Stability and Storage	Shipped at Room Temperature. Upon delivery aliquot. Store at -20°C or -80°C. Avoid freeze / thaw cycle. pH: 7.4 Constituent: 100% PBS
Reconstitution	This information is lot specific. Please contact our technical Support team for details.

General Info

Function	Conversion of dopamine to noradrenaline.
Pathway	Catecholamine biosynthesis; (R)-noradrenaline biosynthesis; (R)-noradrenaline from dopamine: step 1/1.
Involvement in disease	Defects in DBH are the cause of dopamine beta-hydroxylase deficiency (DBH deficiency) [MIM:223360]; also known as norepinephrine deficiency or noradrenaline deficiency. This disorder is characterized by profound deficits in autonomic and cardiovascular function, but apparently only subtle signs, if any, of central nervous system dysfunction.
Sequence similarities	Belongs to the copper type II ascorbate-dependent monooxygenase family. Contains 1 DOMON domain.
Cellular localization	Cytoplasmic vesicle > secretory vesicle lumen. Cytoplasmic vesicle > secretory vesicle > chromaffin granule lumen and Cytoplasmic vesicle > secretory vesicle membrane. Cytoplasmic vesicle > secretory vesicle > chromaffin granule membrane.

Images



SDS-PAGE - Recombinant Human Dopamine beta Hydroxylase protein (ab276542)

SDS-PAGE analysis of ab276542

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