Recombinant human Dopamine beta-Hydroxylase protein

Catalog Number: ATGP3032

PRODUCT INFORMATION

Expression system
E.coli

Domain
40-617aa

UniProt No.
P09172

NCBI Accession No.
NP_000778

Alternative Names
Dopamine beta hydroxylase, Dopamine beta hydroxylase, DBM

PRODUCT SPECIFICATION

Molecular Weight
67.2 kDa (599aa)

Concentration
0.25mg/ml (determined by Bradford assay)

Formulation
Liquid in. Phosphate-Buffered Saline (pH 7.4) containing 10% glycerol, 1mM DTT

Purity
> 85% by SDS-PAGE

Tag
His-Tag

Application
SDS-PAGE

Storage Condition
Can be stored at +2C to +8C for 1 week. For long term storage, aliquot and store at -20C to -80C. Avoid repeated freezing and thawing cycles.

BACKGROUND

Description
DBH also known as dopamine beta hydroxylase that catalyzes the chemical reaction. DBH belongs to the family of oxidoreductases, specifically those acting on paired donors, with O2 as oxidant and incorporation or reduction of oxygen. The oxygen incorporated need not be derived from O2 with reduced ascorbate as one donor, and incorporation of one ato of oxygen into the other donor. Recombinant human DBH, fused to His-tag at N-terminus, was expressed in E. coli and purified by using conventional chromatography techniques.

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Amino acid Sequence

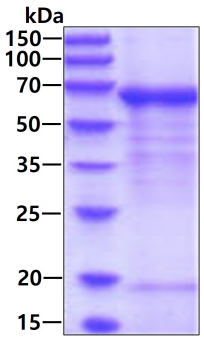
<MGSSHHHHHH SSGLVPRGSH M>SAPRESPLP YHIPLDPEGS LELSWNVSYT QEAIHFQLLV RRLKAGVLFG MSDRGELENA DLVVLWTDGD TAYFADAWSD QKGQIHLDPQ QDYQLLQVQR TPEGLTLLFK RPFGTCDPKD YLIEDGTVHL VYGILEEPFR SLEAINGSGL QMGLQRVQLL KPNIPEPELP SDACTMEVQA PNIQIPSQET TYWCYIKELP KGFSRHHIIK YEPIVTKGNE ALVHHMEVFQ CAPEMDSVPH FSGPCDSKMK PDRLNYCRHV LAAWALGAKA FYYPEEAGLA FGGPGSSRYL RLEVHYHNPL VIEGRNDSSG IRLYYTAKLR RFNAGIMELG LVYTPVMAIP PRETAFILTG YCTDKCTQLA LPPSGIHIFA SQLHTHLTGR KVVTVLVRDG REWEIVNQDN HYSPHFQEIR MLKKVVSVHP GDVLITSCTY NTEDRELATV GGFGILEEMC VNYVHYYPQT QLELCKSAVD AGFLQKYFHL INRFNNEDVC TCPQASVSQQ FTSVPWNSFN RDVLKALYSF APISMHCNKS SAVRFQGEWN LQPLPKVIST LEEPTPQCPT SQGRSPAGPT VVSIGGGKG

General References

Rush RA.,et al. (1980) Crit Rev Clin Lab Sci. 12 (3): 241-77

DATA

SDS-PAGE



3ug by SDS-PAGE under reducing condition and visualized by coomassie blue stain.