

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

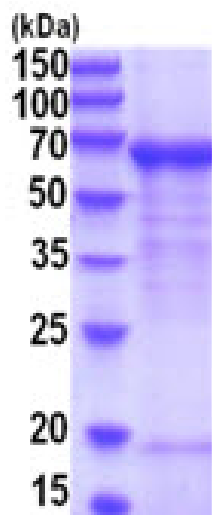
MGSSHHHHHH SSGLVPRGSH MSAPRESPLP YHIPLDPEGS LELSWNVSYT QEAIHFQLLV RRLKAGVLFG MSDRGELENA
DLVVLWTDGD TAYFADAWSD QKGQIHLDPQ QDYQLLQVQR TPEGLTLLFK RPFGTCDPKD YLIEDGTVHL VYGILEEPFR
SLEAINSGSL QMGLQRVQLL KPNIPPELP SDACTMEVQA PNIQIPSQET TYWCYIKELP KGFSRHIIK YEPIVTKGNE
ALVHHMEVFQ CAPEMDSVPH FSGPCDSKMK PDRLNYCRHV LAAWALGAKA FYYPEEAGLA FGGPGSSRYL RLEVHYHNPL
VIEGRNDSSG IRLYYTAKLR RFNAGIMELG LVYTPVMAIP PRETAFILTG YCTDKCTQLA LPPSGIHIFA SQLHHTLTGR
KVVTVLVRDG REWEIVNQDN HYSPhFQEIR MLKKVVSHP GDVLITSCTY NTEDELATV GFGILEEMC VNYVHYYPQT
QLELCKSAVD AGFLQKYFHL INRFNEDVC TCPQASVSQQ FTSVPWNSFN RDVLKALYSF APISMHCNKS SAVRFQGEWN
LQPLPKVIST LEEPTQCPT 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.

15% SDS-PAGE (3ug)