

DBH, 40-617aa, Human, His tag, E.coli

Cat.NO.: TP01831

3th Edition

Synonyms:Dopamine beta hydroxylase, DBM

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.

Form:Liquid, In Phosphate buffered saline (pH7.4) containing 10% glycerol, 1mM DTT

Molecular Weight:67.2kDa (599aa)

Sequences:

MGSSHHHHHHSSGLVPRGSHMSAPRESPLPYHIPLDPEGSLELSWNVSYTQEAIHFQLLVRRLLKAGVLFGMSDRG
ELENADLVVLWTDGDTAYFADAWSDQKGQIHLDPPQQDYQLLQVQRTPEGLTLLFKRPFPGTCDPKDYLIEDGTVHLV
YGILEEPFRSLEAINGSLQMGLQRVQLLKPNIPEPELPSDACTMEVQAPNIQIPSQETTYWCYIKELPKGFSRHHIIK
YEPIVTKGNEALVHHMEVFQCAPEMDSVPHFSGPCDSKMKPDRLNYCRHVLAAWALGAKAFYYPEEAGLAFGGP
GSSRYLRLEVHYHNPLVIEGRNDSSGIRLYYTAKLRRFNAGIMELGLVYTPVMAIPPRETAFILTGYCTDKCTQLALP
PSGIHIFASQLHTHLTGRKVVTVLVRDGREWEIVNQDNHYSHPHFQEIRMLKKVVSVHPGDVLITSCTYNTEDRELAT
VGGFGILEEMCVNYVHYYPQTQLELCKSAVDAGFLQKYFHLINRFNNEVDVCTCPQASVSQQFTSVPWNSFNRDVL
KALYSFAPISMHCNKSSAVRFQGEWNLQPLPKVISTLEEPTQCPTSQGRSPAGPTVVSIGGGKG

Purity:> 95% by HPLC

Concentration:0.25mg/ml (determined by Bradford assay)

Endotoxin Level:<1.0 EU per 1 ug of protein (determined by LAL method)

Storage:Can be stored at +4°C short term (1-2 weeks). For long term storage, aliquot and store at -20°C or -70°C. Avoid repeated freezing and thawing cycles.