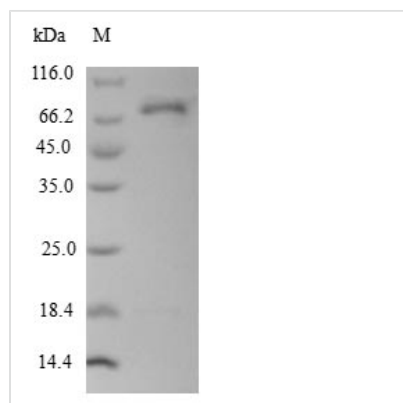




Recombinant Human L-dopachrome tautomerase (DCT),Partial

Product Code	CSB-EP006562HU
Relevance	Catalyzes the conversion of L-dopachrome into 5,6-dihydroxyindole-2-carboxylic acid (DHICA). Involved in regulating eumelanin and phaeomelanin levels.
Abbreviation	Recombinant Human DCT protein, partial
Storage	The shelf life is related to many factors, storage state, buffer ingredients, storage temperature and the stability of the protein itself. Generally, the shelf life of liquid form is 6 months at -20°C/-80°C. The shelf life of lyophilized form is 12 months at -20°C/-80°C.
Uniprot No.	P40126
Product Type	Recombinant Proteins
Immunogen Species	Homo sapiens (Human)
Purity	Greater than 90% as determined by SDS-PAGE.
Sequence	QFPRVCMTVDSLNVKECCPRLGAESANVCGSQQGRGQCTEVRADTRPWSG PYILRNQDDRELWPRKFFHRTCKCTGNFAGYNCGDCKFGWTGPNCERKKPP VIRQNIHSLSPQEREQFLGALDLAKKRVHPDYVITTQHWLGLLGPNGTQPQFA NCSVYDFFVWLHYYSVRDTLLGPGRPYRAIDFSHQGPAFVTWHRYHLLCLER DLQRLIGNESFALPYWNFATGRNECDVCTDQLFGAARPDDPTLISRNSRFSS WETVCDSLDDYNHLVTLNCGTYEGLLRNQMGRNSMKLPTLKDIRDCLSLQK FDNPPFFQNSTFSFRNALEGFDKADGTLDSQVMSLHNLVHSFLNGTNALPHS AANDPIFVVLHSFTDAIFDEWMKRFNPPADAWPQELAPIGHNRMYNMVPPFFPP VTNEELFLTSDQLGYSYIDL PVSVEETPGWPTT
Research Area	others
Source	E.coli
Target Names	DCT
Expression Region	24-472aa
Notes	Repeated freezing and thawing is not recommended. Store working aliquots at 4°C for up to one week.
Tag Info	N-terminal 10xHis-SUMO-tagged and C-terminal Myc-tagged
Mol. Weight	71.3 kDa
Protein Length	Topological Domain
Image	



(Tris-Glycine gel) Discontinuous SDS-PAGE (reduced) with 5% enrichment gel and 15% separation gel.

Description

E.coli-expressed L-dopachrome tautomerase (DCT) CSB-EP006562HU is a recombinant fusion protein of partial DCT coupled to a 10xHis-SUMO-tag at the N-terminus and a Myc-tag at the C-terminus. This protein consists of the topological domain (23-108aa) of human DCT and has a calculated molecular weight of 71.3 kDa. The SDS-PAGE showed an about 80 kDa molecular mass of this protein and determined the purity of over 90%. In-stock DCT proteins are offered now. In addition to producing specific antibodies, this recombinant DCT protein may be used in the studies of melanogenesis.

L-DCT or TRP-2 is an important regulatory enzyme involved in melanin synthesis. It also executes proliferative, immunogenic, and anti-apoptotic roles in melanoma cells. L-DCT/TRP-2 is also a marker for amelanotic and melanotic melanoma. Studies showed that A3B5 (N-(3,5-dimethylphenyl)-3-methoxybenzamide) effectively inhibited melanin production by the degradation of TRP-2.

Shelf Life

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