

## DCT Protein, Mouse (His-SUMO)

<b>Cat. No.:</b>	HY-P72169
<b>Synonyms:</b>	Dct; Tyrp-2; Tyrp2; L-dopachrome tautomerase; DCT; DT; EC 5.3.3.12; DOPachrome conversion factor; DOPachrome isomerase; DOPachrome oxidoreductase; L-dopachrome Delta-isomerase; SLATY locus protein; Tyrosinase-related protein 2; TRP-2; TRP2
<b>Species:</b>	Mouse
<b>Source:</b>	E. coli
<b>Accession:</b>	P29812 (Q24-S472)
<b>Gene ID:</b>	13190
<b>Molecular Weight:</b>	Approximately 69.7 kDa

### PROPERTIES

#### AA Sequence

Q F P R V C M T L D	G V L N K E C C P P	L G P E A T N I C G	F L E G R G Q C A E
V Q T D T R P W S G	P Y I L R N Q D D R	E Q W P R K F F N R	T C K C T G N F A G
Y N C G G C K F G W	T G P D C N R K K P	A I L R R N I H S L	T A Q E R E Q F L G
A L D L A K K S I H	P D Y V I T T Q H W	L G L L G P N G T Q	P Q I A N C S V Y D
F F V W L H Y Y S V	R D T L L G P G R P	Y K A I D F S H Q G	P A F V T W H R Y H
L L W L E R E L Q R	L T G N E S F A L P	Y W N F A T G K N E	C D V C T D E L L G
A A R Q D D P T L I	S R N S R F S T W E	I V C D S L D D Y N	R R V T L C N G T Y
E G L L R R N K V G	R N N E K L P T L K	N V Q D C L S L Q K	F D S P P F F Q N S
T F S F R N A L E G	F D K A D G T L D S	Q V M N L H N L A H	S F L N G T N A L P
H S A A N D P V F V	V L H S F T D A I F	D E W L K R N N P S	T D A W P Q E L A P
I G H N R M Y N M V	P F F P P V T N E E	L F L T A E Q L G Y	N Y A V D L S E E E
A P V W S T T L S			

**Biological Activity** The enzyme activity of this recombinant protein is testing in progress, we cannot offer a guarantee yet.

**Appearance** Lyophilized powder.

**Formulation** Lyophilized from a 0.2 µm solution of Tris-based buffer, 50% Glycerol.

**Endotoxin Level** <1 EU/µg, determined by LAL method.

**Reconstitution** It is not recommended to reconstitute to a concentration less than 100 µg/mL in ddH<sub>2</sub>O.

**Storage & Stability** Stored at -20°C for 2 years. After reconstitution, it is stable at 4°C for 1 week or -20°C for longer (with carrier protein). It is recommended to freeze aliquots at -20°C or -80°C for extended storage.

**Shipping** Room temperature in continental US; may vary elsewhere.

### DESCRIPTION

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**Background**

DCT (Dopachrome tautomerase) is integral to melanin biosynthesis, a process crucial for pigmentation. Functioning as an enzyme, DCT plays a key role in the conversion of L-dopachrome to 5,6-dihydroxyindole-2-carboxylic acid (DHICA), a pivotal step in the melanin synthesis pathway. The catalytic activity of DCT contributes to the intricate biochemical processes underlying the production of melanin, highlighting its significance in determining skin pigmentation and the regulation of melanin-related biological functions.

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**Caution: Product has not been fully validated for medical applications. For research use only.**

Tel: 609-228-6898

Fax: 609-228-5909

E-mail: [tech@MedChemExpress.com](mailto:tech@MedChemExpress.com)

Address: 1 Deer Park Dr, Suite Q, Monmouth Junction, NJ 08852, USA