

## DCT Protein, Human (His-SUMO)

<b>Cat. No.:</b>	HY-P72168
<b>Synonyms:</b>	L dopachrome tautomerase; DCT; Dopachrome delta isomerase; Dopachrome tautomerase; Dopachrome tautomerase dopachrome delta isomerase; tyrosine related protein 2; DT; EC 5.3.3.12; L dopachrome Delta isomerase; L-dopachrome Delta-isomerase; L-dopachrome tautomerase; TRP 2; TRP-2; TRP2; Tyrosinase related protein 2; Tyrosinase-related protein 2; TYRP2; TYRP2_HUMAN
<b>Species:</b>	Human
<b>Source:</b>	E. coli
<b>Accession:</b>	P40126 (Q24-T472)
<b>Gene ID:</b>	1638
<b>Molecular Weight:</b>	Approximately 71.3 kDa

### PROPERTIES

<b>AA Sequence</b>	<pre> Q F P R V C M T V D   S L V N K E C C P R   L G A E S A N V C G   S Q Q G R G Q C T E V R A D T R P W S G   P Y I L R N Q D D R   E L W P R K F F H R   T C K C T G N F A G Y N C G D C K F G W   T G P N C E R K K P   P V I R Q N I H S L   S P Q E R E Q F L G A L D L A K K R V H   P D Y V I T T Q H W   L G L L G P N G T Q   P Q F 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 R A I D F S H Q G   P A F V T W H R Y H L L C L E R D L Q R   L I G N E S F A L P   Y W N F A T G R N E   C D V C T D Q L F G A A R P D D P T L I   S R N S R F S S W E   T V C D S L D D Y N   H L V T L C N G T Y E G L L R R N Q M G   R N S M K L P T L K   D I R D C L S L Q K   F D N 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 S L H N L V H   S F L N G T N A L P H S A A N D P I F V   V L H S F T D A I F   D E W M K R F N P P   A 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 S D Q L G Y   S Y A I D L P V S V E E T P G W P T T </pre>
<b>Biological Activity</b>	The enzyme activity of this recombinant protein is testing in progress, we cannot offer a guarantee yet.
<b>Appearance</b>	Lyophilized powder.
<b>Formulation</b>	Lyophilized from a 0.2 µm solution of Tris-based buffer, 50% Glycerol.
<b>Endotoxin Level</b>	<1 EU/µg, determined by LAL method.
<b>Reconstitution</b>	It is not recommended to reconstitute to a concentration less than 100 µg/mL in ddH <sub>2</sub> O.
<b>Storage &amp; Stability</b>	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.
<b>Shipping</b>	Room temperature in continental US; may vary elsewhere.

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## DESCRIPTION

### Background

The DCT protein plays a crucial role in the biosynthesis of melanin. It is responsible for catalyzing the conversion of L-dopachrome into 5,6-dihydroxyindole-2-carboxylic acid (DHICA), which is a key step in melanin synthesis.

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

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