

## 32-6727: DCT Human

**Alternative Name :** L-dopachrome tautomerase (EC:5.3.3.12), DCT, DT, L-dopachrome Delta-isomerase Tyrosinase-related protein 2, TRP-2, TRP2, TYRP2.

### Description

Source: Sf9 Insect cells.

Sterile Filtered colorless solution.

Dopachrome Tautomerase also known as DCT, belongs to the tyrosinase family. DCT takes a significant part in the synthesis of the melanin pigment including tyrosinase (Tyr), tyrosinase-related protein 1 (Tyrp1). Which are highly involved in eumelanin synthesis. The change among the eumelanin and the pheomelanin pathways is assumed to depend on the presence of cysteine. Hence, in the lack of cysteine, dopaquinone, the product of tyrosinase action, is transformed to cyclodopa (leucodopachrome) and afterwards to dopachrome (and DOPA).

DCT Human Recombinant produced in Sf9 Insect cell is a single, non-glycosylated polypeptide chain containing 455 amino acids (24-472aa.a) and having a molecular mass of 52.1kDa (Migrates at 50-70kDa on SDS-PAGE under reducing conditions). DCT is fused to a 6 amino acid His tag at C-Terminus and purified by proprietary chromatographic techniques.

### Product Info

**Amount :** 2 µg / 10 µg

**Purification :** Greater than 90% as determined by SDS-PAGE.

**Content :** STK3 protein solution (0.25mg/ml) containing Phosphate Buffered Saline (pH 7.4) and 10% glycerol.

**Storage condition :** Store at 4°C if entire vial will be used within 2-4 weeks. Store, frozen at -20°C for longer periods of time. For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA). Avoid multiple freeze-thaw cycles.

**Amino Acid :** QFPRVCMTVD SLVNKECCPR LGAESANVCG SQQGRGQCTE VRADTRPWSG PYILRNQDDR  
ELWPRKFFHR TCKCTGNFAG YNCGDCKFGW TGPNCERKKP PVIRQNIHSL SPQEREQFLG ALDLAKKRVH  
PDYVITTQHW LGLLGPNGTQ PQFANCSVYD FFVWLHYYSV RDTLLGPGRP YRAIDFSHQG PAFVTWHRYH  
LLCLERDLQR LIGNESFALP YWNFATGRNE CDVCTDQLFG AARPDDPTLI SRNSRFSSWE TVCDSLDDYN  
HLVTLCNGTY EGLLRNQMG RNSMKLPTLK DIRDCLSLQK FDNPPFFQNS TFSFRNALEG FDKADGTLDS  
QVMSLHNLVH SFLNGTNALP HSAANDPIFV VLHSFTDAIF DEWMKRFPNP ADAWPQELAP  
IGHNRMYNMV PFFPPVTNEE LFLTSDQLGY SYAIDLPSV EETPGWPTTH HHHHH.