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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 EGLLRRNQMG RNSMKLPTLK DIRDCLSLQK FDNPPFFQNS TFSFRNALEG FDKADGTLDS QVMSLHNLVH SFLNGTNALP HSAANDPIFV VLHSFTDAIF DEWMKRFNPP ADAWPQELAP IGHNRMYNMV PFFPPVTNEE LFLTSDQLGY SYAIDLPVSV EETPGWPTTH HHHHH.

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