
Product Data Sheet

Product Name: DCT Human
 Cat. No.: GP21543
 Batch No.: 1

Product Data

Purity	>98%	Source	Sf9 Insect cells.
Physical Appearance	solid	Shipping Condition	Shipped with Ice Packs.
Synonyms	L-dopachrome tautomerase (EC:5.3.3.12); DCT; DT; L-dopachromeDelta-isomerase Tyrosinase-related protein2; TRP-2; TRP2; TYRP2.		
Amino Acid Sequence	<p>QFPRVCMTVD SLVNKECCPRLGAESANVCG SQQGRGQCTE VRADTRPWSG PYILRNQDDR ELWPRKFFHR TCKCTGNFAG YNCGDCKFGW TGPNCERKKP PVIRQNIHSL SPQEREQFLG ALDLAKKRVH PDYVITTQHW LGLLGPNGTQ PQFANCSVYDFFVWLHYYSV RDLLGPGRP YRAIDFSHQG PAFVTWHRYH LLCLERDLQR LIGNESFALP YWNFATGRNECDVCTDQLFG AARPDPTLI SRNSRFSSWE TVCDSLDDYN HLVTLNNGTY EGLLRNQMGRNSMKLPTLK DIRDCLSLQK FDNPPFFQNS TFSFRNALEG FDKADGTLDS QVMSLHNLVH SFLNGTNALP HSAANDPIFVVLHSFTDAIF DEWMKRFNPP ADAWPQELAP IGHNRMYNMV PFFPPVTNEE LFLTSDQLGY SYAIDL PVSVEETPGWPTTH HHHHH.</p>		
Formulation	STK3 protein solution (0.25mg/ml) containing PhosphateBuffered Saline (pH 7.4) and 10% glycerol.		

Introduction

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 afterward to dopachrome (and DOPA).

Stability

Store at 4°C if entire vial will be used within 2-4 weeks. Store frozen at -20°C for longer

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

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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.

Background

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.

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