9051 Mira Mesa Blvd, #910094
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TYRP1 Human

Tyrosinase Related Protein 1 Human Recombinant
RCP2486

Product Overview

Name	TYRP1 Human

Description

Tyrosinase Related Protein 1 Human Recombinant

Accession (Primary)	P17643

Synonyms

Tyrosinase Related Protein 1, Tyrosinase-Related Protein 1, Melanoma Antigen Gp75, Glycoprotein 75, DHICA Oxidase, Catalase B, CAS2, TRP1, TYRP, TRP, 5,6-Dihydroxyindole-2-Carboxylic Acid Oxidase, EC 1.14.18.1, EC 1.14.18.-, EC 1.14.18, B-PROTEIN, TRP-1, TYRRP, CATB, GP75, OCA3, 5,6-dihydroxyindole-2-carboxylic acid oxidase.

Introduction

TYRP1, also known as 5, 6-dihydroxyindole-2-carboxylic acid oxidase, is a melanosomal enzyme which is a member of the tyrosinase family and takes a significant part in the melanin biosynthetic pathway. TYRP1 is a melanocyte - specific gene which is involved in eumelanin synthesis. Furthermore, TYRP1 is implicated in the oxidation of 5,6-dihydroxyindole-2 - carboxylic acid-DHICA into indole-5,6-quinone-2-carboxylic acid. TYRP1 is regulated by the microphthalmia-associated transcription factor-MITF.

Source

Sf9, Baculovirus cells.

Physical Appearance

Sterile Filtered colorless solution.

Formulation

TYRP1 protein solution (0.25mg/ml) containing Phosphate Buffered Saline (pH 7.4) and 10% glycerol.

Stability

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.

Purity

Greater than 85.0% as determined by SDS-PAGE.

Amino acid sequence

ADL QFPRQCA TVEALRSGMC CPDLSPVSGP GTDRCGSSSG RGRCEAVTAD SRPHSPQYPH DGRDDREVWP

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LRFFNRTCHC NGNFSGHNCG TCRPGWRGAA CDQRVLIVRR NLLDLSKEEK NHFVRALDMA KRTTHPLFVI ATRRSEEILG PDGNTPQFEN ISIYNYFVWT HYYSVKKTFL GVGQESFGEV DFSHEGPAFL TWHRYHLLRL EKDMQEMLQE PSFSLPYWNF ATGKNVCDIC TDDLMGSRSN FDSTLISPNS VFSQWRVVCD SLEDYDTLGT LCNSTEDGPI RRNPAGNVAR PMVQRLPEPQ DVAQCLEVGL FDTPPFYSNS TNSFRNTVEG YSDPTGKYDP AVRSLHNLAH LFLNGTGGQT HLSPNDPIFV LLHTFTDAVF DEWLRRYNAD ISTFPLENAP IGHNRQYNMV PFWPPVTNTE MFVTAPDNLG YTYEIQWPSR EFSVPE HHHH HH .

Precautions

TYRP1 Human is for research use only and not for use in diagnostic or therapeutic procedures.

Target Information: (P17643)