
Product Data Sheet

Product Name: TYRP1 Human
 Cat. No.: GP24930
 Batch No.: 1

Product Data

Purity	>98%	Source	Sf9,Baculovirus cells.
Physical Appearance	solid	Shipping Condition	Shipped with Ice Packs.
Synonyms	Tyrosinase Related Protein 1; Tyrosinase-Related Protein1; 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; EC1.14.18.-; EC 1.14.18; B-PROTEIN; TRP-1; TYRRP; CATB; GP75; OCA3; 5;6-dihydroxyindole-2-carboxylicacid oxidase.		
Amino Acid Sequence	ADLQFPRQCATVEALRSGMC CPDLSPVSGP GTDRCGSSSG RGRCEAVTAD SRPHSPQYPH DGRDDREVWP LRFFNRTCHCNGNFSGHNCG TCRPGWRGAA CDQRVLIVRR NLLDLSKEEK NHFVRALDMA KRTTHPLFVI ATRRSEEILGPDGNTQPEN ISINYFVWT HYYSVKKTFLGVGQESFGEV DFSHEGPAFL TWHRYHLLRL EKDMQEMLQE PSFSLPYWNFATGKNVCDIC TDDLMGSRSN FDSTLISPNS VFSQWRVVCD SLEDYDTLGT LCNSTEDGPI RRNPAGNVARPMVQRLPEPQ DVAQCLEVGL FDTPPFYSNS TNSFRNTVEG YSDPTGKYDP AVRSLHNL AHLFLNGTGGQT HLSPNDPIFVLLHTFTDAVF DEWLRRYNAD ISTFPLENAP IGHNRQYNMV PFWPPVTNTE MFVTAPDNLG YTYEIQWPSR EFSVPEHHHHHH.		
Formulation	TYRP1 protein solution (0.25mg/ml) containing PhosphateBuffered Saline (pH 7.4) and 10% glycerol.		

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.

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

Tel: (909) 407-4943 Fax: (626) 353-8530 E-mail: tech@glpbio.com

Address: 10292 Central Ave. #205, Montclair, CA, USA

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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.

Background

TYRP1 Human Recombinant produced in Sf9 Baculovirus cells is a single, non-glycosylated polypeptide chain containing 462 amino acids (25-477 a.a) and having a molecular mass of 52.5 kDa. (Molecular size on SDS-PAGE will appear at approximately 50-70 kDa). TYRP1 is fused to a 6 amino acid His-tag at C-terminus & purified by proprietary chromatographic techniques.

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