

Recombinant human TYRP1 protein

Catalog Number: ATGP3435

PRODUCT INFORMATION

Expression system

Baculovirus

Domain

25-477aa

UniProt No.

P17643

NCBI Accession No.

NP_000541

Alternative Names

5, 6-dihydroxyindole-2-carboxylic acid oxidase, TYRP1, b-PROTEIN, CAS2, CATB, GP75, OCA3, TRP, TRP1, TYRP

PRODUCT SPECIFICATION

Molecular Weight

52.5 kDa (462aa)

Concentration

0.25mg/ml (determined by absorbance at 280nm)

Formulation

Liquid in. Phosphate-Buffered Saline (pH 7.4) containing 10% glycerol

Purity

> 85% by SDS-PAGE

Endotoxin level

< 1 EU per 1ug of protein (determined by LAL method)

Tag

His-Tag

Application

SDS-PAGE

Storage Condition

Can be stored at +2C to +8C for 1 week. For long term storage, aliquot and store at -20C to -80C. Avoid repeated freezing and thawing cycles.

BACKGROUND

Description

TYRP1, also known as 5, 6-dihydroxyindole-2-carboxylic acid oxidase, is a melanosomal enzyme that belongs to the tyrosinase family and plays an important role in the melanin biosynthetic pathway. It is a melanocyte-specific gene product involved in eumelanin synthesis. It is involved in the oxidation of 5, 6-dihydroxyindole-2-carboxylic acid (DHICA) into indole-5, 6-quinone-2-carboxylic acid. It is regulated by the microphthalmia-

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associated transcription factor (MITF). Recombinant human TYRP1, fused to His-tag at C-terminus, was expressed in insect cell and purified by using conventional chromatography techniques.

Amino acid Sequence

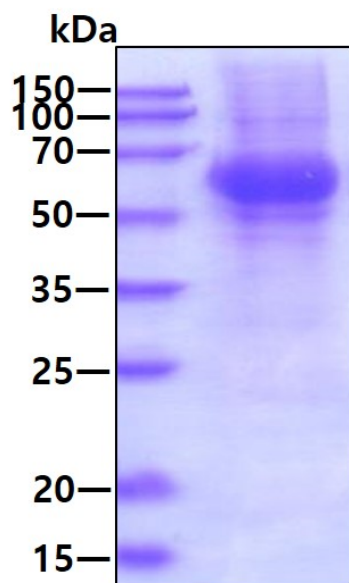
<ADL>QFPRQCA TVEALRSGMC CPDLSPVSGP GTDRCGSSSG RGRCEAVTAD SRPHSPQYPH DGRDDREVWP
LRFFNRTCHC NGNFSGHNCG TCRPGWRGAA CDQRVLIVRR NLLDLSKEEK NHFVRALDMA KRTTHPLFVI ATRRSEEILG
PDGNTPQFEN ISIYNYFVWT HYYSVKKTFL GVGQESFGEV DFSHEGPAFL TWHRYHLLRL EKDMQEMLQE PSFSLPYWNF
ATGKNVCDIC TDDLMGSRSN FDSLISPNS VFSQWRVCD SLEDYDTLGT LCNSTEDGPI RRNPAGNVAR PMVQRLPEPQ
DVAQCLEVGL FDTPPFYSNS TNSFRNTVEG YSDPTGKYDP AVRSLHNLAH LFLNGTGGQT HLPNDPIFV LLHTFTDAVF
DEWLRRYNAD ISTFPLENAP IGHNRQYNMV PFWPPVTNTE MFVTAPDNLG YTYEIQWPSR EFSVPE<HHHH HH>

General References

Sarangarajan R., et al. (2001) Pigment Cell Res. 14:437-444.
Chalupa A., et al. (2015) J Invest Dermatol. 135:202-211.

DATA

SDS-PAGE



3ug by SDS-PAGE under reducing condition and visualized by coomassie blue stain.