

# Product information

## TYRP1, 25-477aa

Human, His-tagged, Recombinant, Insect cell

Cat. No. IBATGP3435

**Full name:** 5, 6-dihydroxyindole-2-carboxylic acid oxidase

**NCBI Accession No.:** NP\_000541

**Synonyms:** TYRP1, b-PROTEIN, CAS2, CATB, GP75, OCA3, TRP, TRP1, TYRP

**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-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.

**Form:** Liquid. In Phosphate Buffered Saline (pH 7.4) containing 10% glycerol.

**Molecular Weight:** 52.5kDa (462aa)

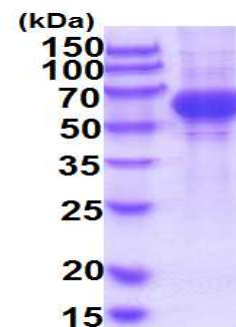
50-70kDa (SDS-PAGE under reducing conditions)

**Predicted N terminal:** Ala

**Purity:** > 85% by SDS - PAGE.

**Concentration:** 0.25mg/ml (determined by Absorbance at 280nm)

**Endotoxin Level:** < 1.0 EU per 1µg of protein (determined by LAL method)



15% SDS-PAGE (3µg)

### Sequences of amino acids:

ADLQFPRQCA TVEALRSGMC CPDLSPVSGP GTDRCGSSSG RGRCEAVTAD SRPHSPQYPH DGRDDREVWP LRFFNRTCHC NGNFSGHNCG  
 TCRPGWRGAA CDQRVL I VRR NLLDLSKEEK NHFVRALDMA KRTTHPLFVI ATRRSEE I LG PDGNT PQFEN I S I YNYFVWT HYYSVKKFTL  
 GVGQESFGEV DFSHEGPAFL TWHRYHLLRL EKDMQEMLQE PSFSLPYWNF ATGKNVCD I C TODLMGSRSN FDSL I SPNS VFSQWRVVCD  
 SLEDYDTLGT LCNSTEDGPI RRNPAGNVAR PMVQRLPEPQ DVAQCLEVGL FDTPPFYSNS TNSFRNTVEG YSDPTGKYDP AVRSLHNLAH  
 LFLNGTGGQT HLSPNDP I FV LLHTFTDAVF DEWLRRYNAD ISTFPLENAP I GHNRQYNMV PFWPPVTNTE MFVTAPDNLG YTYE I QWPSR  
 EFSVPEHHHH HH

**For research use only. This product is not intended or approved for human, diagnostics or veterinary use.**

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**General references:**

Sarangarajan R., *et al.* (2001) *Pigment Cell Res.* 14:437-444.

Chalupa A., *et al.* (2015) *J Invest Dermatol.* 135:202-211.

**Storage:** Can be stored at +4°C short term (1-2 weeks). For long term storage, aliquot and store at -20°C or -70°C.

Avoid repeated freezing and thawing cycles.

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*Manufactured for:*

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