

Recombinant Human TYRP1 protein, His-tagged

Cat. No. TYRP1-22H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant human TYRP1, fused to His-tag at C-terminus, was expressed in insect cell and purified by using conventional chromatography techniques.
Species	Human
Source	Insect Cells
ProteinLength	25-477 a.a.
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).
Form	Liquid. In Phosphate Buffered Saline (pH 7.4) containing 10% glycerol
Molecular Mass	52.5kDa (462aa) 50-70kDa (SDS-PAGE under reducing conditions)
AA Sequence	ADLQFPRQCA TVEALRSGMC CPDLSPVSGP GTDRCGSSSG RGRCEAVTAD SRPHSPQYPH DGRDDREVWP LRFFNRTCHC NGNFSGHNCGTCRPGWARGAA CDQRVLVIRR NLLDLSKEEK NHFVRALDMA KRTTHPLFVI ATRRSEEILG PDGNTQPQFEN ISINYFVWT HYYSVKKTFLGVGQESFGEV DFSHEGPAFL

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TWHRYHLLRL EKDMQEMLQE PSFSLPYWNF ATGKNVCDIC TDDLMGSRSN
 FDSTLISPNS VFSQWRVVCDLSLEDYDTLGT LCNSTEDGPI RRNPAGNVAR
 PMVQRLPEPQ DVAQCLEVGL FDTPPFYSNS TNSFRNTVEG YSDPTGKYDP
 AVRSLHNLAH
 LFLNGTGGQT HLSPNDPIFV LLHTFTDAVF DEWLRRYNAD ISTFPLENAP
 IGHNRQYNMV PFWPPVTNTE MFVTAPDNLG YTYEIQWPSREFSVPEHHHH HH

Endotoxin < 1.0 EU per 1 microgram of protein (determined by LAL method)

Purity > 85% by SDS - PAGE

Storage Can be stored at +4centigrade short term (1-2 weeks). For long term storage, aliquot and store at -20centigrade or -70centigrade. Avoid repeated freezing and thawing cycles.

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

GENE INFORMATION

Gene Name TYRP1 tyrosinase-related protein 1 [Homo sapiens]

Official Symbol TYRP1

Synonyms TYRP1; tyrosinase-related protein 1; CAS2, TYRP; CATB; GP75; TRP; TRP1; TRP-1; catalase B; DHICA oxidase; glycoprotein 75; melanoma antigen gp75; CAS2; TYRP; b-PROTEIN;

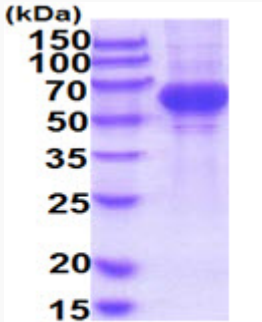
Gene ID 7306

mRNA Refseq NM_000550

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Protein Refseq	NP_000541
MIM	115501
UniProt ID	P17643
Chromosome Location	9p23
Pathway	Direct p53 effectors, organism-specific biosystem; Melanogenesis, organism-specific biosystem; Melanogenesis, conserved biosystem; Metabolic pathways, organism-specific biosystem; Tyrosine metabolism, organism-specific biosystem; Tyrosine metabolism, conserved biosystem; ethanol degradation IV, organism-specific biosystem;
Function	copper ion binding; metal ion binding; oxidoreductase activity, acting on paired donors, with incorporation or reduction of molecular oxygen, another compound as one donor, and incorporation of one atom of oxygen; protein binding; protein heterodimerization activity; protein homodimerization activity;
 15% SDS-PAGE (3ug)	