

TYRP1, 25-477aa, Human, His-tag, Baculovirus

Cat.NO.: TP04366

3th Edition

Synonyms:5, 6-dihydroxyindole-2-carboxylic acid oxidase, 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)

Sequences:

ADLQFPRQCATVEALRSGMCCPDLSVSGPGTDRCGSSSGRGRCEAVTADSRPHSPQYPHDGRDDREVVPLRF
FNRTCHCNGNFGHNCGTCPGWGAACDQRVLIVRRNLLDLSKEEKNHFVRALDMAKRTTHPLFVIATRRSEEIL
GPDGNTPFENISINYFVWTHYYSVKKTF LGVGVQESFGEVDFSHEGPAFLTWHRYHLLRLEKDMQEMLQEPSFS
LPYWNFATGKNVCDICTDDLMSRSNFDSTLISPNSVFSQWRVVCDSLEDYDTLGLTCNSTEDGPIRRNPAGNVA
RPMVQRLPEPQDVAQCLEVLFDTPPFYSNSTNSFRNTVEGYSDPTGKYDPAVRSLHNLHLFLNGTGGQTHLSP
NDPIFVLLHTFTDAVFDEWLRRYNADISTFPLENAPIGHNRQYNMVPFWPPVTNTEMFVTAPDNLGYTYEIQWPSR
EFSVPEHHHHHH

Purity:> 95% by HPLC

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

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

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.