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Datasheet for ABIN7198542

Tyrosinase-Related Protein 1 Protein (TYRP1) (His tag)

Overview

Quantity:	20 µg
Target:	Tyrosinase-Related Protein 1 (TYRP1)
Origin:	Human
Source:	Baculovirus infected Insect Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This Tyrosinase-Related Protein 1 protein is labelled with His tag.

Product Details

Purpose:	Recombinant Human TRP1/TYRP1 Protein (Baculovirus, His Tag)
Sequence:	Met 1- Arg 471
Characteristics:	A DNA sequence encoding the human TYRP1 (P17643) extracellular domain (Met 1- Arg 471) was fused with a polyhistidine tag at the C-terminus.
Purity:	> 96 % as determined by reducing SDS-PAGE.
Endotoxin Level:	< 1.0 EU per µg as determined by the LAL method.

Target Details

Target:	Tyrosinase-Related Protein 1 (TYRP1)
Alternative Name:	/TYRP1 (TYRP1 Products)
Background:	Background: Tyrosinase-related protein 1, also known as TYRP1 or TRP1, is a melanosomal enzyme that belongs to the tyrosinase family and plays an important role in the melanin biosynthetic pathway. Mutations in this enzyme are the cause of rufous oculocutaneous

Target Details

albinism and oculocutaneous albinism type III. TYRP1 / TRP1 is involved in the oxidation of 5,6-dihydroxyindole-2-carboxylic acid (DHICA) into indole-5,6-quinone-2-carboxylic acid. This enzyme may regulate or influence the type of melanin synthesized. The expression of Tyrosinase-related protein 1 (TYRP1) is regulated by the microphthalmia-associated transcription factor (MITF). There is mounting evidence demonstrating that in addition to its role in eumelanin synthesis, TYRP1 is involved in maintaining stability of tyrosinase proliferation and melanocyte cell death.

Synonym: b-PROTEIN,CAS2,CATB,GP75,OCA3,TRP,TRP1,TYRP

Molecular Weight: 52 kDa

UniProt: [P17643](#)

Application Details

Restrictions: For Research Use only

Handling

Format: Lyophilized

Reconstitution: Please refer to the printed manual for detailed information.

Buffer: Lyophilized from sterile 20 mM Tris, 500 mM NaCl, pH 7.4, 10 % glycerol

Storage: 4 °C,-20 °C,-80 °C

Storage Comment: Generally, lyophilized proteins are stable for up to 12 months when stored at -20 to -80°C. Reconstituted protein solution can be stored at 4-8°C for 2-7 days. Aliquots of reconstituted samples are stable at < -20°C for 3 months.