

Recombinant Human TRP1/TYRP1 Protein (Baculovirus, His Tag)



Catalog Number:PKSH030693

Note: Centrifuge before opening to ensure complete recovery of vial contents.

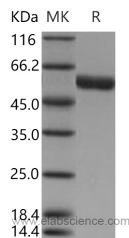
Description

Synonyms	b-PROTEIN;CAS2;CATB;GP75;OCA3;TRP;TRP1;TYRP
Species	Human
Expression Host	Baculovirus-Insect Cells
Sequence	Met 1- Arg 471
Accession	P17643
Calculated Molecular Weight	52 kDa
Observed molecular weight	55 kDa
Tag	C-His

Properties

Purity	> 96 % as determined by reducing SDS-PAGE.
Endotoxin	< 1.0 EU per µg as determined by the LAL method.
Storage	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.
Shipping	This product is provided as lyophilized powder which is shipped with ice packs.
Formulation	Lyophilized from sterile 20mM Tris, 500mM NaCl, pH 7.4, 10% gly
Reconstitution	Please refer to the printed manual for detailed information.

Data



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 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.

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