



Recombinant Protein Technical Manual

**Recombinant Human TRP1/TYRP1 Protein
(Baculovirus, His Tag)**
RPES4397

Product Data:

Product SKU: RPES4397

Size: 20µg

Species: Human

Expression host: Baculovirus-Insect Cells

Uniprot: P17643

Protein Information:

Molecular Mass: 52 kDa

AP Molecular Mass: 55 kDa

Tag: C-His

Bio-activity:

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.

Application:

Synonyms: b-PROTEIN;CAS2;CATB;GP75;OCA3;TRP;TRP1;TYRP

Immunogen Information:

Sequence: Met 1- Arg 471

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.