

Recombinant Human RPE65 Over-expression Lysate, Myc/DDK-tagged

Cat. No. RPE65-01HCL Lot. No. (See product label)

SPECIFICATION

Product Overview	Transient overexpression lysate of retinal pigment epithelium-specific protein 65kDa (RPE65) with a C-Myc/DDK tag was expressed in HEK293T. Components:
	1 vial of 100 µg gene specific transient over-expression cell lysate in RIPA buffer 1 vial of 100 µg whole HEK293T cell lysate in RIPA buffer 1 vial of 250 µL 2×SDS Sample Buffer (4% SDS, 125mM Tris-HCl pH6.8, 10% Glycerol, 0.002% Bromophenol blue, 100mM DTT)
Species	Human
Source	HEK293
Description	This gene encodes a protein which is located in the retinal pigment epithelium and is involved in the production of 11-cis retinal and in visual pigment regeneration. There are two forms of this protein, a soluble form called sRPE65, and a palmitoylated, membrane-bound form known as mRPE65. mRPE65 serves as the palmitoyl donor for lecithin retinol acyl transferase (LRAT), the enzyme that catalyzes the vitamin A to all trans retinol step of the chromophore regeneration process. Both mRPE65 and sRPE65 also serve as regulatory proteins, with the ratio and concentrations of these molecules playing a role in the inhibition of 11-cis retinal synthesis. Mutations in this gene have been associated with Leber congenital amaurosis type 2 (LCA2) and retinitis pigmentosa.

 Tel: 1-631-559-9269 1-516-512-3133

 Email: info@creative-biomart.com  Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA

Molecular Mass	61.4 kDa
Stability	Lysate samples are stable for 12 months from the date of receipt when stored at -80 centigrade.
Storage	Upon receiving, store the sample at -80 centigrade. Also after dilution, the protein sample should be aliquoted and stored at -80 centigrade for long term storage. Avoid repeated freeze-thaw cycles.
Dilutions	Lysate samples can be diluted with 2×SDS Sample Buffer provided.
Shipping	Dry ice

GENE INFORMATION

Gene Name	RPE65 retinoid isomerohydrolase RPE65 [Homo sapiens (human)]
Official Symbol	RPE65
Synonyms	RPE65; retinoid isomerohydrolase RPE65; p63; BCO3; LCA2; RP20; rd12; mRPE65; sRPE65; retinoid isomerohydrolase; BCO family, member 3 RBP-binding membrane protein; RPE65, retinoid isomerohydrolase; all-trans-retinyl-palmitate hydrolase; lutein isomerase; meso-zeaxanthin isomerase; retinal pigment epithelium specific protein 65; retinal pigment epithelium-specific 65 kDa protein; retinal pigment epithelium-specific protein 65kDa; retinitis pigmentosa 20 (autosomal recessive); retinol isomerase; EC 3.1.1.64; EC 5.3.3.22
Gene ID	6121
mRNA Refseq	NM_000329

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Protein Refseq	NP_000320
MIM	180069
UniProt ID	Q16518

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