

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

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

### SPECIFICATION

Transient overexpression lysate of retinal pigment epithelium-specific protein 65kDa (RPE65) with a C-Myc/DDK tag was expressed in HEK293T.

Components:

#### Product Overview

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 2xSDS 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.

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<b>Molecular Mass</b>	61.4 kDa
<b>Stability</b>	Lysate samples are stable for 12 months from the date of receipt when stored at -80 centigrade.
<b>Storage</b>	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.
<b>Dilutions</b>	Lysate samples can be diluted with 2xSDS Sample Buffer provided.
<b>Shipping</b>	Dry ice

## GENE INFORMATION

<b>Gene Name</b>	RPE65 retinoid isomerohydrolase RPE65 [ Homo sapiens (human) ]
<b>Official Symbol</b>	RPE65
<b>Synonyms</b>	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
<b>Gene ID</b>	6121
<b>mRNA Refseq</b>	NM_000329

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<b>Protein Refseq</b>	NP_000320
<b>MIM</b>	180069
<b>UniProt ID</b>	Q16518

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