

Recombinant Human RDH13, His-tagged

Cat. No. RDH13-31309TH Lot. No. (See product label)

SPECIFICATION

Product Overview	Recombinant full length protein, corresponding to amino acids 1-260 of Human RDH13 (Isoform 2) with N terminal His tag, 37kDa.
Species	Human
Source	E.coli
ProteinLength	1-260 a.a.
Description	This gene encodes a mitochondrial short-chain dehydrogenase/reductase, which catalyzes the reduction and oxidation of retinoids. The encoded enzyme may function in retinoic acid production and may also protect the mitochondria against oxidative stress. Alternatively spliced transcript variants have been described.
Conjugation	HIS
Tissue specificity	Expressed mostly in eye, pancreas, placenta and lung. In the retina, detected in the inner segment of the photoreceptor cells. Weak signals were observed in a small population of inner nuclear neurons and the inner plexiform layer.
Form	Lyophilised:Reconstitute with 140 µl aqua dest.
Storage buffer	Preservative: NoneConstituents: 0.5% Trehalose, 6M Urea, 100mM Sodium phosphate, 10mM Sodium chloride, pH 4.5

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Storage	Shipped at 4°C. Upon delivery aliquot and store at -80oC. Avoid freeze / thaw cycles.
Sequences of amino acids	MEKCEAAAKDIRGETLNHHVNARHLDLASLKSIREFAAKI IEEERVDILINNAGVMR CPHWTTEDGFEMQFGVNH LG HFLLTNLLLDK LKASAPSRIINLSSLAHVAGHIDFDD L NWQTRKYNTKAAYCQSKLAIVLFTKELSRRLQGSGVTVNA LHPGVARTELGRHT GIHGSTFSSTTLGPIFWLLVKSPE LAAQPSTYLAVAEELADVSGKYFDGLKQKAPAP EAEDE EVARRLWAESARLVGLEAPSVREQPLPR
Sequence Similarities	Belongs to the short-chain dehydrogenases/reductases (SDR) family.
Full Length	Full L.

GENE INFORMATION

Gene Name	RDH13 retinol dehydrogenase 13 (all-trans/9-cis) [Homo sapiens]
Official Symbol	RDH13
Synonyms	RDH13; retinol dehydrogenase 13 (all-trans/9-cis); retinol dehydrogenase 13 (all trans and 9 cis); retinol dehydrogenase 13; SDR7C3; short chain dehydrogenase/reductase family 7C; member 3;
Gene ID	112724
mRNA Refseq	NM_138412
Protein Refseq	NP_612421
Uniprot ID	Q8NBN7

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Chromosome Location	19q13.42
Function	nucleotide binding; oxidoreductase activity;

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