

Recombinant Human RDH12, His-tagged

Cat. No. RDH12-31307TH **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant fragment of Human RDH12 (amino acids 39-316) fused to His tag at N-terminus; 303aa, 33.5kDa.
Species	Human
Source	E.coli
ProteinLength	278 amino acids
Description	The protein encoded by this gene is an NADPH-dependent retinal reductase whose highest activity is toward 9-cis and all-trans-retinol. The encoded enzyme also plays a role in the metabolism of short-chain aldehydes but does not exhibit steroid dehydrogenase activity. Defects in this gene are a cause of Leber congenital amaurosis type 3 (LCA3).
Conjugation	HIS
Molecular Weight	33.500kDa inclusive of tags
Tissue specificity	Widely expressed, mostly in eye, kidney, brain, skeletal msucle and stomach.
Form	Liquid
Purity	>90% by SDS-PAGE

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Storage buffer	pH: 8.00 Constituents: 0.32% Tris HCl, 1.17% Sodium chloride, 0.03% DTT, 40% Glycerol
Storage	Shipped at 4°C. Upon delivery aliquot and store at -20°C or -80°C. Avoid repeated freeze / thaw cycles.
Sequences of amino acids	MGSSHHHHHH SSGLVPRGSH MGSMSIRAF AEGFL AEEKQLHILI NNAGVMMCPY SKTADGFETH LGVNH LGHFL LTYLL LERLK VSAPARVVNV SSVAHHIGKI PFHDLQSEKR YSRGFAYCHS KLANVLFTRE LAKRLQGTGV TTYAVHPGVV RSELVRHSSL LCLLWRLFSP FVKTAREGAQ TSLHCALAEG LEPLSGKYFS GKVVV ITGANTGIGK ETARELASRG ARVYIACRDV LKGESAASEI RVDTKNSQVL VRKLDLSDTKDCKRTWVSPR ARNNKTAERL WNVSCCELLGI RWE
Sequence Similarities	Belongs to the short-chain dehydrogenases/reductases (SDR) family.

GENE INFORMATION

Gene Name	RDH12 retinol dehydrogenase 12 (all-trans/9-cis/11-cis) [Homo sapiens]
Official Symbol	RDH12
Synonyms	RDH12; retinol dehydrogenase 12 (all-trans/9-cis/11-cis); retinol dehydrogenase 12 (all trans and 9 cis); retinol dehydrogenase 12; FLJ30273; LCA13; SDR7C2; short chain dehydrogenase/reductase family 7C; member 2;
Gene ID	145226
mRNA Refseq	NM_152443
Protein Refseq	NP_689656

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MIM	608830
Uniprot ID	Q96NR8
Chromosome Location	14q24.1
Pathway	Metabolic pathways, organism-specific biosystem; Retinol metabolism, organism-specific biosystem; Retinol metabolism, conserved biosystem; Visual signal transduction: Cones, organism-specific biosystem; Visual signal transduction: Rods, organism-specific biosystem;
Function	nucleotide binding; oxidoreductase activity; retinol dehydrogenase activity;

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