Recombinant Human Retinol Dehydrogenase 12 (all-trans/9-cis/11-cis), His-tagged

Cat. No. RDH12-1371H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinanthuman RDH12protein, fused to His-tag at N-terminus, was expressed in E.coli andpurified by using conventional chromatography techniques.
Species	Human
Source	E.coli
Description	RDH12 belongs to theshort-chain dehydrogenases /reductases (SDR) family. RDH12 is expressed,mostly in eye, kidney, brain, skeletal muscle and stomach. It is anNADPH-dependent retinal reductase whose highest activity is toward 9-cis andall-trans-retinol. RDH12 also plays a role in the metabolism of short-chainaldehydes but does not exhibit steroid dehydrogenase activity.
Form	Liquid. In 20 mMTris-HCl buffer (pH 8.0) containing 2 mM DTT, 40% glycerol, 0.2M NaCl.
Molecular Weight	33.5 kDa(303 aa), confirmed by MALDI-TOF.
Purity	> 90%by SDS-PAGE
Concentration	0.25mg/ml(determined by Bradford assay)
Sequences of aminoacids	MGSSHHHHHHSSGLVPRGSH MGSHMGKVVV ITGANTGIGK ETARELASRG ARVYIACRDVLKGESAASEI RVDTKNSQVL VRKLDLSDTK

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	SIRAFAEGFLAEEKQLHILI NNAGVMMCPY SKTADGFETH LGVNHLGHFL LTYLLLERLK VSAPARVVNV SSVAHHIGKIPFHDLQSEKR YSRGFAYCHS KLANVLFTRE LAKRLQGTGV TTYAVHPGVV RSELVRHSSL LCLLWRLFSPFVKTAREGAQ TSLHCALAEG LEPLSGKYFS DCKRTWVSPRARNNKTAERL WNVSCELLGI RWE
Storage	Can bestored at +4°C short term (1-2 weeks). For long term storage, aliquot andstore at -20°C or -70°C. Avoid repeated freezing and thawing cycles.
Pathways	Metabolicpathways; Retinol metabolism; Visual signal transduction; Vitamin A andcarotenoid metabolism

GENE INFORMATION

Gene Name	RDH12 retinol dehydrogenase 12(all-trans/9-cis/11-cis) [Homo sapiens]
Official Symbol	RDH12
Synonyms	RDH12; retinoldehydrogenase 12 (all-trans/9-cis/11-cis); LCA3; LCA13; SDR7C2;FLJ30273; retinoldehydrogenase 12; all-trans and 9-cis retinol dehydrogenase; retinoldehydrogenase 12, all-trans and 9-cis; short chain dehydrogenase/reductasefamily 7C, member 2
Gene ID	145226
mRNA Refseq	NM_152443
Protein Refseq	NP_689656
MIM	608830

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UniProt ID	Q96NR8
Chromosome Location	14q24.1
Function	binding;oxidoreductase activity; retinol dehydrogenase activity

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