

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 the short-chain dehydrogenases /reductases (SDR) family. RDH12 is expressed, mostly in eye, kidney, brain, skeletal muscle and stomach. It is an NADPH-dependent retinal reductase whose highest activity is toward 9-cis and all-trans-retinol. RDH12 also plays a role in the metabolism of short-chain aldehydes but does not exhibit steroid dehydrogenase activity.
Form	Liquid. In 20 mM Tris-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 ARVYIACRDVLKGESAAASEI RVDTKNSQVL VRKLDLSDTK

 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

SIRAF AEGFLAEEKQLHILI NNAGVMMCPY SKTADGFETH LGVNHLGHFL
 LTYLLLERLK VSAPARVVNV SSVAHHIGKIPFHDLDQSEKR YSRGFAYCHS
 KLANVLF TRE LAKRLQGTGV TTYAVHPGVV RSELVRHSSL
 LCLLWRLFSPFVKTAREGAQ TSLHCALAEG LEPLSGKYFS
 DCKRTWVSPRARNNKTAERL WNVSCCELLGI 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

 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



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

 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