# **Product information**



## RDH12, 39-316aa

## Human, His-tagged, Recombinant, E.coli

Cat. No. IBATGP1371

Full name: Retinol dehydrogenase 12 NCBI Accession No.: NP 689656

Synonyms: LCA13, LCA3, SDR7C2

Description: Retinol dehydrogenase 12, also known as 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. Recombinant human RDH12 protein, fused to His-tag at N-terminus, was expressed in E.coli and purified by using conventional chromatography techniques.

Form: Liquid. In 20mM Tris-HCl buffer (pH 8.0) containing 2mM DTT, (kDa) 40% glycerol, 0.2M NaCl Molecular Weight: 33.5 kDa (303aa), confirmed by MALDI-TOF Purity: > 90% by SDS - PAGE 13.5 **Concentration:** 0.25 mg/ml (determined by Bradford assay) 15% SDS-PAGE (3ug)

#### Sequences of amino acids:

MGSSHHHHHH SSGLVPRGSH MGSHMGKVVV ITGANTGIGK ETARELASRG ARVYIACRDV LKGESAASEI RVDTKNSQVL VRKLDLSDTK SIRAFAEGFL AEEKQLHILI NNAGVMMCPY SKTADGFETH LGVNHLGHFL LTYLLLERLK VSAPARVVNV SSVAHHIGKI PFHDLQSEKR YSRGFAYCHS KLANVLFTRE LAKRLQGTGV TTYAVHPGVV RSELVRHSSL LCLLWRLFSP FVKTAREGAQ TSLHCALAEG LEPLSGKYFS DCKRTWVSPR ARNNKTAERL WNVSCELLGI RWE

### General references:

Maeda A., et al. (2006) J Biol Chem. 281:37697-37704.

Keller B., et al. (2007) J Steroid Biochem Mol Biol. 104:190-194.

Storage: Can be stored at +4°C short term (1-2 weeks). For long term storage, aliquot and store at -20°C or -70°C. Avoid repeated freezing and thawing cycles.

For research use only. This product is not intended or approved for human, diagnostics or veterinary use.



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