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Recombinant human RDH12 protein

Catalog Number: ATGP1371

PRODUCT INFORMATION

Expression system

E.coli

Domain

39-316aa

UniProt No.

096NR8

NCBI Accession No.

NP 689656.2

Alternative Names

Retinol dehydrogenase 12, LCA13, LCA3, SDR7C2

PRODUCT SPECIFICATION

Molecular Weight

33.5 kDa (303aa) confirmed by MALDI-TOF

Concentration

0.25mg/ml (determined by Bradford assay)

Formulation

Liquid in. 20mM Tris-HCl buffer (pH 8.0) containing 2mM DTT, 40% glycerol, 0.2M NaCl

Purity

> 90% by SDS-PAGE

Tag

His-Tag

Application

SDS-PAGE

Storage Condition

Can be stored at +2C to +8C for 1 week. For long term storage, aliquot and store at -20C to -80C. Avoid repeated freezing and thawing cycles.

BACKGROUND

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.



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Amino acid Sequence

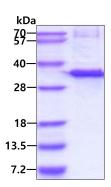
<MGSSHHHHHH SSGLVPRGSH MGSHM>GKVVV ITGANTGIGK ETARELASRG ARVYIACRDV LKGESAASEI RVDTKNSQVL VRKLDLSDTK SIRAFAEGFL AEEKQLHILI NNAGVMMCPY SKTADGFETH LGVNHLGHFL LTYLLLERLK VSAPARVVNV SSVAHHIGKI PFHDLQSEKR YSRGFAYCHS KLANVLFTRE LAKRLQGTGV TTYAVHPGVV RSELVRHSSL LCLLWRLFSP FVKTAREGAQ TSLHCALAEG LEPLSGKYFS DCKRTWVSPR 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.

DATA

SDS-PAGE



3ug by SDS-PAGE under reducing condition and visualized by coomassie blue stain.

