

Recombinant human RDH12 protein

Catalog Number: ATGP1371

PRODUCT INFORMATION

Expression system

E.coli

Domain

39-316aa

UniProt No.

Q96NR8

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 SIRAF AEGFL AEEKQLHILI NNAGVMMCPY SKTADGFETH LGVNHLGHFL LTYLLLERLK
VSAPARVVNV SVAHHIGKI PFHDLQSEKR YSRGFAYCHS KLANVLFTR E LAKRLQGTGV TTYAVHPGVV RSELVRHSSL
LCLLWRLFSP FVKTAREGAQ TSLHCALAEG LEPLSGKYFS DCKRTWVSPR ARNNKTAERL WNVSCCELLGI RWE

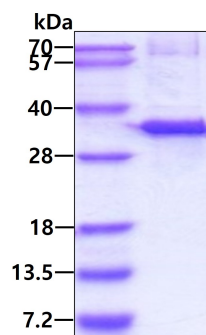
General References

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



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