

## RDH12 Human

**Description:** RDH12 Human Recombinant produced in E.coli is a single, non-glycosylated polypeptide chain containing 303 amino acids (39-316) and having a molecular mass of 33.5kDa. RDH12 is fused to a 25 amino acid His-tag at N-terminus & purified by proprietary chromatographic techniques.

**Catalog #:** ENPS-240

For research use only.

**Synonyms:** Retinol dehydrogenase 12 (all-trans/9-cis/11-cis), LCA3, LCA13, SDR7C2, All-trans and 9-cis retinol dehydrogenase, short chain dehydrogenase/reductase family 7C, member 2, FLJ30273, EC 1.1.1.100.

**Source:** E.coli.

**Physical Appearance:** Sterile Filtered colorless solution.

**Amino Acid Sequence:** MGSSHHHHHH SSGLVPRGSH MGSHMGKVVV ITGANTGIGK  
ETARELASRG ARVYIACRDV LKGESAASEI RVDTKNSQVL VRKLDLSDTK SIRAFAGFL  
AEEKQLHILI NNAGVMMCPY SKTADGFETH LGVNLHGHFL LTYLLLERLK VSAPARVVNV  
SSVAHHIGKI PFHDLQSEKR YSRGFAYCHS KLANVLFTRE LAKRLQGTGV TTYAVHPGVV  
RSELVHSSL LC

**Purity:** Greater than 90% as determined by SDS-PAGE.

### Formulation:

The RDH12 solution (0.25mg/ml) contains 20mM Tris-HCl buffer (pH 8.0), 200mM NaCl, 2mM DTT and 40% glycerol.

### Stability:

Store at 4°C if entire vial will be used within 2-4 weeks. Store, frozen at -20°C for longer periods of time. For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA). Avoid multiple freeze-thaw cycles.

### Usage:

NeoBiolab's products are furnished for LABORATORY RESEARCH USE ONLY. The product may not be used as drugs, agricultural or pesticidal products, food additives or household chemicals.

### Introduction:

RDH12 is a member of the short-chain Dehydrogenases / Reductases (SDR) family. RDH12 is found generally in brain, stomach, eye, skeletal muscle and kidney. RDH12 is a NADPH-dependent retinal reductase whose main activity is toward 9-cis and all-trans-retinol. In addition, RDH12 takes part in the metabolism of short-chain aldehydes but does not display steroid dehydrogenase activity.

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