

**RDH12, 39-316aa, Human, His tag, E.coli**

**Cat.NO.: TP03708**

3th Edition

**Synonyms:**Retinol dehydrogenase 12, 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.

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

**Molecular Weight:**33.5 kDa (303aa), confirmed by MALDI-TOF

**Sequences:**

MGSSHHHHHHSSGLVPRGSHMGSHMGKVVVITGANTGIGKETARELASRGARVYIACRDVLKGESAAASEIRVDTK  
NSQVLVRKLDLSDTKSIRAF AEGFLAEEKQLHILINNAGVMMCPYSKTADGFETHLGVNHLGHFLTTYLLLERLKVSA  
PARVVNVSSVAHHIGKIPFHD LQSEKRYSRGFAYCHSKLANVLFTR ELAKRLQGTGVTTYAVHPGVVRSELVRHSS  
LLCLLWRLFSPFVK TAREGAQ TSLHCALAEGL EPLSGKYFSDCKRTWVSPRARNNKTAERLWNVSCCELLGIRWE

**Purity:**> 95% by HPLC

**Concentration:**0.25 mg/ml (determined by Bradford assay)

**Endotoxin Level:**<1.0 EU per 1 ug of protein (determined by LAL method)

**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.