
Product Data Sheet

Product Name: RDH12 Human
 Cat. No.: GP22216
 Batch No.: 1

Product Data

Purity	>98%	Source	E.coli.
Physical Appearance	solid	Shipping Condition	Shipped with Ice Packs.
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.		
Amino Acid Sequence	MGSSHHHHHH SGLVPRGSH MGS HMGKVVV ITGANTGIGK ETARELASRG ARVYIACRDV LKGESAASEI RVDTKNSQVL VRKLDLSDTK SIRAF AEGFL AEEKQLHILI NNAGVMMCPY SKTADGFETH LGVNHLGHFL LTYLLLERLK VSAPARVVNV SVAHHIGKI PFHDLQSEKR YSRGFAYCHS KLANVLF TRE LAKRLQGTGV TTYAVHPGVV RSELV RHSSL LCLLWRLFSP FVKTAREGAQ TSLHCAL AEG LEPLSGKYFS DCKRTWVSPR ARNNKTAERL WNVSCCELLGI RWE		
Formulation	The RDH12 solution (0.25mg/ml) contains 20mM Tris-HCl buffer (pH 8.0), 200mM NaCl, 2mM DTT and 40% glycerol.		

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.

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.

Background

Caution: Product has not been fully validated for medical applications. For research use only.

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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.

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