RDH10 Human Recombinant Protein

PRODUCT OVERVIEW

Product Name	RDH10, Recombinant Protein
Full Product Name	Recombinant Human RDH10
Product Gene Name	RDH10 recombinant protein
Product Synonym Names	RDH10; Retinol dehydrogenase 10; SDR16C4
Host	E Coli
Form/Format	Lyophilized from a 0.2um filtered solution in PBS with 5% trehalose, pH7.4
Purity/Purification	Greater than 80% by SDS-PAGE gel analyses
Preparation and Storage	Store at -20 degree C for 12 months as lyophilized; 2-8 degree C for 1 month under sterile conditions after reconstitution
Molecular Weight	38,087 Da
Sequence Positions	97-341
Chromosome Location	Chromosome: 8; NC_000008.10 (74206837..74237520). Location: 8q21.11
OMIM	607599
3D Structure	ModBase 3D Structure for Q8IZV5
Species	Human
Tag	N-terminal His-IF2DI Tag
Reconstitution	Centrifuge the vial at 10,000rpm for 1 minute, reconstitute at 200ug/ml in sterile distilled water
ISO Certification	Manufactured in an ISO 13485:2003 and EN ISO 13485:2012 Certified Laboratory.
Applications Tested/Suitable for RDH10 recombinant protein	Western Blot (WB), ELISA (EIA)
Related Product Information for RDH10 recombinant protein	MBS7613523 is a recombinant protein targeting RDH10. Also known as Recombinant Human RDH10. Host: E Coli.
Other Notes	Small volumes of RDH10 recombinant protein vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for RDH10. It may not necessarily be applicable to this product.

NCBI GI #	25282469
NCBI GeneID	157506
NCBI Accession #	NP_742034.1
UniProt Primary Accession #	Q8IZV5
UniProt Related Accession #	Q8IZV5
GenBank Nucleotide #	NM_172037.4

NCBI Official Full Name	retinol dehydrogenase 10
NCBI Official Synonym Full Names	retinol dehydrogenase 10 (all-trans)
NCBI Official Symbol	RDH10
NCBI Official Synonym Symbols	SDR16C4
UniProt Protein Name	Retinol dehydrogenase 10
Protein Family	Retinol dehydrogenase
UniProt Gene Name	RDH10
UniProt Entry Name	RDH10_HUMAN
NCBI Protein Information	retinol dehydrogenase 10; short chain dehydrogenase/reductase family 16C, member 4
NCBI Summary for RDH10	This gene encodes a retinol dehydrogenase, which converts all-trans-retinol to all-trans-retinal, with preference for NADP as a cofactor. Studies in mice suggest that this protein is essential for synthesis of embryonic retinoic acid and is required for limb, craniofacial, and organ development. [provided by RefSeq, Dec 2011]
UniProt Comments for RDH10	Function: Retinol dehydrogenase with a clear preference for NADP. Converts all-trans-retinol to all-trans-retinal. Has no detectable activity towards 11-cis-retinol, 9-cis-retinol and 13-cis-retinol. Ref.1 Catalytic activity: All-trans-retinol + NADP+ = all-trans-retinal + NADPH. Ref.1 Pathway: Cofactor metabolism; retinol metabolism. Subcellular location: Microsome membrane; Single-pass membrane protein Potential. Endoplasmic reticulum membrane; Single-pass membrane protein Potential Ref.1. Tissue specificity: Detected in retina, kidney, liver, small intestine, placenta, lung, heart and skeletal muscle. Ref.1 Ref.4 Sequence similarities: Belongs to the short-chain dehydrogenases/reductases (SDR) family.
Research Articles on RDH10	**1.** Retinol dehydrogenase 10 but not retinol/sterol dehydrogenase(s) regulates the expression of retinoic acid-responsive genes in human transgenic skin raft culture.
Precautions	All of MyBioSource's Products are for scientific laboratory research purposes and are not for diagnostic, therapeutics, prophylactic or in vivo use. Through your purchase, you expressly represent and warrant to MyBioSource that you will properly test and use any Products purchased from MyBioSource in accordance with industry standards. MyBioSource and its authorized distributors reserve the right to refuse to process any order where we reasonably believe that the intended use will fall outside of our acceptable guidelines.
Disclaimer	While every efforts were made to ensure the accuracy of the information provided in this datasheet, MyBioSource will not be liable for any omissions or errors contained herein. MyBioSource reserves the right to make changes to this datasheet at any time without prior notice. It is the responsibility of the customer to report product performance issues to MyBioSource within 30 days of receipt of the product. Please visit our Terms & Conditions page for more information.
Product Note	Select online data sheet information is drawn from bioinformatics databases, occasionally resulting in ambiguous or non-relevant product information. It is the responsibility of the customer to review, verify, and evaluate the information to make sure it matches their requirements before purchasing the kit. Our ELISA Kit assays are dynamic research tools and sometimes they may be updated and improved. If the format of this assay is important to you then please request the current manual or contact our technical support team with a presales inquiry before placing an order. We will confirm the current details of the assay. We cannot guarantee the sample manual posted online is the most current manual, it is intended to serve as an example only. Please refer to the instructions For Use provided with the assay kit for precise details.

For Research Use Only. Not for use in diagnostic or therapeutic procedures.