

Full-Length

RDH8 (Human) Recombinant Protein (P01)

Catalog # H00050700-P01

Size 25 ug, 10 ug

Applications



Specification	
Product Description	Human RDH8 full-length ORF (AAl46480.1, 1 a.a 311 a.a.) recombinant protein with GST-tag at N- terminal.
Sequence	MAAAPRTVLISGCSSGIGLELAVQLAHDPKKRYQVVATMRDLGKKETLEAAAGEALGQTLTVAQL DVCSDESVAQCLSCIQGEVDVLVNNAGMGLVGPLEGLSLAAMQNVFDTNFFGAVRLVKAVLPG MKRRRQGHIVVISSVMGLQGVIFNDVYAASKFALEGFFESLAIQLLQFNIFISLVEPGPVVTEFEGKL LAQVSMAEFPGTDPETLHYFRDLYLPASRKLFCSVGQNPQDVVQAIVNVISSTRPPLRRQTNIRYS PLTTLKTVDSSGSLYVRTTHRLLFRCPRLLNLGLQCLSCGCLPTRVRPR
Host	Wheat Germ (in vitro)
Theoretical MW (kDa)	61.16
Interspecies Antigen Sequence	Mouse (82); Rat (83)
Preparation Method	in vitro wheat germ expression system
Purification	Glutathione Sepharose 4 Fast Flow
Quality Control Testing	12.5% SDS-PAGE Stained with Coomassie Blue.
Storage Buffer	50 mM Tris-HCI, 10 mM reduced Glutathione, pH=8.0 in the elution buffer.

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Product Information

Storage Instruction

Store at -80°C. Aliquot to avoid repeated freezing and thawing.

Note

Best use within three months from the date of receipt of this protein.

Applications

- Enzyme-linked Immunoabsorbent Assay
- Western Blot (Recombinant protein)
- Antibody Production
- Protein Array

Gene Info — RDH8

Entrez GenelD	<u>50700</u>
GeneBank Accession#	<u>BC146479</u>
Protein Accession#	<u>AAI46480.1</u>
Gene Name	RDH8
Gene Alias	PRRDH, SDR28C2
Gene Description	retinol dehydrogenase 8 (all-trans)
Omim ID	<u>608575</u>
Gene Ontology	<u>Hyperlink</u>
Gene Summary	All-trans-retinol dehydrogenase (RDH8) is a visual cycle enzyme that reduces all-trans-retinal to all -trans-retinol in the presence of NADPH (Rattner et al., 2000 [PubMed 10753906]). It is a membe r of the short chain dehydrogenase/reductase family and is located in the outer segments of photo receptors; hence it is also known as photoreceptor retinol dehydrogenase. It is important in the vis ual cycle by beginning the rhodopsin regeneration pathway by reducing all-trans-retinal, the produ ct of bleached and hydrolysed rhodopsin (Rando, 2001 [PubMed 11710234]). This is a rate-limiti ng step in the visual cycle (Saari et al., 1998 [PubMed 9667000]).[supplied by OMIM
Other Designations	photoreceptor outer segment all-trans retinol dehydrogenase short chain dehydrogenase/reductas e family 28C, member 2



Pathway

- Metabolic pathways
- Retinol metabolism