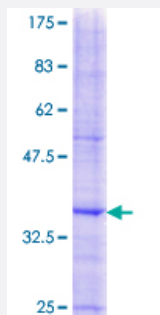


# RDH12 (Human) Recombinant Protein (Q01)

Catalog # H00145226-Q01

Size 25 ug, 10 ug

## Applications



## Specification

|                                |                                                                                                             |
|--------------------------------|-------------------------------------------------------------------------------------------------------------|
| <b>Product Description</b>     | Human RDH12 partial ORF ( NP_689656.1, 217 a.a. - 316 a.a.) recombinant protein with GST-tag at N-terminal. |
| <b>Sequence</b>                | RLQGTGVTTYAVHPGVVRSELVRHSSLLCLLWRLFSPFVKTAREGAQTSLHICALAEGLLEPLSGKY<br>FSDCKRTWVSPRARNNKTAERLWNVSCCELLGIRWE |
| <b>Host</b>                    | Wheat Germ (in vitro)                                                                                       |
| <b>Theoretical MW (kDa)</b>    | 36.74                                                                                                       |
| <b>Preparation Method</b>      | <a href="#">in vitro wheat germ expression system</a>                                                       |
| <b>Purification</b>            | Glutathione Sepharose 4 Fast Flow                                                                           |
| <b>Quality Control Testing</b> | 12.5% SDS-PAGE Stained with Coomassie Blue.                                                                 |
| <b>Storage Buffer</b>          | 50 mM Tris-HCl, 10 mM reduced Glutathione, pH=8.0 in the elution buffer.                                    |
| <b>Storage Instruction</b>     | Store at -80°C. Aliquot to avoid repeated freezing and thawing.                                             |
| <b>Note</b>                    | 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 — RDH12

Entrez GeneID [145226](#)

GeneBank Accession# [NM\\_152443](#)

Protein Accession# [NP\\_689656.1](#)

Gene Name RDH12

Gene Alias FLJ30273, LCA3, SDR7C2

Gene Description retinol dehydrogenase 12 (all-trans/9-cis/11-cis)

Omim ID [604232](#) [608830](#)

Gene Ontology [Hyperlink](#)

**Gene Summary** The protein encoded by this gene is an NADPH-dependent retinal reductase whose highest activity is toward 9-cis and all-trans-retinol. The encoded enzyme also plays a role in the metabolism of short-chain aldehydes but does not exhibit steroid dehydrogenase activity. Defects in this gene are a cause of Leber congenital amaurosis type 3 (LCA3). [provided by RefSeq]

**Other Designations** retinol dehydrogenase 12|retinol dehydrogenase 12, all-trans and 9-cis|short chain dehydrogenase/reductase family 7C, member 2

## Pathway

- [Metabolic pathways](#)
- [Retinol metabolism](#)

## Disease

- [Blindness](#)
- [Leber hereditary optic neuropathy](#)
- [Optic Atrophy](#)
- [Retinal Diseases](#)
- [Retinitis Pigmentosa](#)