

## Recombinant Human SDR16C5, His-tagged

**Cat. No.** SDR16C5-7549H    **Lot. No.** (See product label)

### SPECIFICATION

|                            |                                                                                                                                                                                                                                                                                                                                                                  |
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| <b>Product Overview</b>    | Recombinant human SDR16C5 protein, fused to His-tag at N-terminus, was expressed in E.coli and purified by using conventional chromatography techniques.                                                                                                                                                                                                         |
| <b>Species</b>             | Human                                                                                                                                                                                                                                                                                                                                                            |
| <b>Source</b>              | E.coli                                                                                                                                                                                                                                                                                                                                                           |
| <b>ProteinLength</b>       | 32-269aa                                                                                                                                                                                                                                                                                                                                                         |
| <b>Antigen Description</b> | Short chain dehydrogenase/reductase family 16C, member5, also known as SDR16C5, is active in both the oxidative and reductive directions. This protein oxidizes all-trans-retinol in all-trans-retinaldehyde. No activity was detected with 11-cis-retinol or 11-cis-retinaldehyde as substrates with either NAD <sup>+</sup> /NADH or NADP <sup>+</sup> /NADPH. |
| <b>Form</b>                | Liquid. In 20mM Tris-HCl buffer (pH 8.0) containing 0.15M NaCl, 10% glycerol, 1mM DTT                                                                                                                                                                                                                                                                            |
| <b>Molecular Mass</b>      | 28.3 kDa (261aa) confirmed by MALDI-TOF                                                                                                                                                                                                                                                                                                                          |
| <b>AA Sequence</b>         | MGSSHHHHHH SSGLVPRGSH MGSPKPRKNV AGEIVLITGA GSGLGRLLAL<br>QFARLGSVLV LWDINKEGNE ETCKMAREAG ATRVHAYTCD CSQKEGVYRV<br>ADQVKKEVG D VSILINNAGI VTGKKFLDCP DELMEKSFDV NFKAHLWTYK<br>AFLPAMIAND HGHLVCISSS AGLSGVNGLA DYCASKFAAF GFAESV FVET<br>FVQKQKGIKT TIVCPFFIKT GMFEGCTTGC PSLLPILPK YAVEKIVEAI                                                                  |

 Tel: 1-631-559-9269    1-516-512-3133

 Email: [info@creative-biomart.com](mailto:info@creative-biomart.com)     Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA

|                      |                                                                                                                                                      |
|----------------------|------------------------------------------------------------------------------------------------------------------------------------------------------|
|                      | LQEKMYLYMP K                                                                                                                                         |
| <b>Purity</b>        | >90% as determined by SDS - PAGE                                                                                                                     |
| <b>Applications</b>  | SDS-PAGE                                                                                                                                             |
| <b>Storage</b>       | 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. |
| <b>Concentration</b> | 1 mg/ml                                                                                                                                              |

## GENE INFORMATION

|                        |                                                                                                                                                                                                                                                                                                                                                        |
|------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Gene Name</b>       | <a href="#">SDR16C5 short chain dehydrogenase/reductase family 16C, member 5 [ Homo sapiens ]</a>                                                                                                                                                                                                                                                      |
| <b>Official Symbol</b> | SDR16C5                                                                                                                                                                                                                                                                                                                                                |
| <b>Synonyms</b>        | SDR16C5; short chain dehydrogenase/reductase family 16C, member 5; epidermal retinol dehydrogenase 2; RDH E2; RDHE2; EPHD-2; retSDR2; epidermal retinal dehydrogenase 2; retinal short chain dehydrogenase reductase; retinal short-chain dehydrogenase reductase 2; short-chain dehydrogenase/reductase family 16C member 5; RDH#2; RDH-E2; FLJ33105; |
| <b>Gene ID</b>         | <a href="#">195814</a>                                                                                                                                                                                                                                                                                                                                 |
| <b>mRNA Refseq</b>     | <a href="#">NM_138969</a>                                                                                                                                                                                                                                                                                                                              |
| <b>Protein Refseq</b>  | <a href="#">NP_620419</a>                                                                                                                                                                                                                                                                                                                              |
| <b>MIM</b>             | <a href="#">608989</a>                                                                                                                                                                                                                                                                                                                                 |

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| <b>UniProt ID</b>          | Q8N3Y7                                                                                                                                                                                          |
| <b>Chromosome Location</b> | 8q12.1                                                                                                                                                                                          |
| <b>Pathway</b>             | Retinol metabolism, organism-specific biosystem; Retinol metabolism, conserved biosystem; retinoate biosynthesis I, conserved biosystem; retinoate biosynthesis I, organism-specific biosystem; |
| <b>Function</b>            | nucleotide binding; oxidoreductase activity; retinol dehydrogenase activity;                                                                                                                    |

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