

## Recombinant Human DHRS4 Protein, His-tagged

**Cat. No.** DHRS4-26686TH    **Lot. No.** (See product label)

### SPECIFICATION

|                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
|-------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Product Overview</b> | Recombinant Human DHRS4(1-278aa) fused with His tag at N-terminal was expressed in E. coli.                                                                                                                                                                                                                                                                                                                                                                                                                          |
| <b>Species</b>          | Human                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| <b>Source</b>           | E.coli                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| <b>ProteinLength</b>    | 1-278aa                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| <b>Description</b>      | DHRS4, also known as dehydrogenase/reductase SDR family member 4, belongs to the short-chain dehydrogenases/reductases (SDR) family. DHRS4 reduces all trans retinal and 9 cis retinal. This protein can also catalyze the oxidation of all trans retinol with NADP as cofactor, but with much lower efficiency. Also, DHRS4 reduces alkyl phenyl ketones and alpha dicarbonyl compounds with aromatic rings, such as pyrimidine 4 aldehyde, 3 benzoylpyridine, 4 benzoylpyridine, menadione and 4 hexanoylpyridine. |
| <b>Form</b>             | Liquid. 20mM Tris-HCl buffer (pH7.5) containing 20% glycerol, 1mM DTT                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| <b>Molecular Mass</b>   | 32.1 kDa (302aa), confirmed by MALDI-TOF                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| <b>AA Sequence</b>      | MGSSHHHHHH SSGLVPRGSH MGS HQNV DQAVATL QGEGLSVTGT<br>VCHVGKAEDR ERLVATAVKL HGGIDILVSN AAVNPFFGSI MDVTEEVWDK<br>TLDINVKAPA LMTKAVVPEM<br>MHKAGL LGLCARAWNS VRMASSGMTR RDPLANKVAL VTASTDGIGF                                                                                                                                                                                                                                                                                                                           |

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AIARRLAQDG AHVVSSRKQEKRGGSVVI VSSIAAFSPS PGFSPYNVSK  
TALLGLTKTL AIELAPRNIR VNCLAPGLIK TSFSRMLWMD KEKEESMKET  
LRIRRLGEPEDCAGIVSFLC SEDASYITGE TVVGGGTPS RL

**Purity** > 85% by SDS - PAGE

**Storage** Can be stored at +4 centigrade short term (1-2 weeks). For long term storage, aliquot and store at -20 centigrade or -70 centigrade. Avoid repeated freezing and thawing cycles.

**Concentration** 0.25 mg/ml (determined by Bradford assay)

## GENE INFORMATION

**Gene Name** DHRS4 dehydrogenase/reductase (SDR family) member 4 [ Homo sapiens ]

**Official Symbol** DHRS4

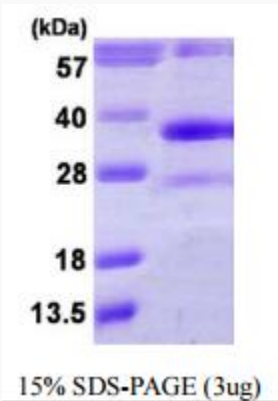
**Synonyms** DHRS4; dehydrogenase/reductase (SDR family) member 4; dehydrogenase/reductase SDR family member 4; FLJ11008; humNRDR; SCAD SRL; SDR SRL; SDR25C2; short chain dehydrogenase/reductase family 25C; member 2; NADP-dependent retinol dehydrogenase; peroxisomal short-chain alcohol dehydrogenase; NADPH-dependent retinol dehydrogenase/reductase; short-chain dehydrogenase/reductase family member 4; dehydrogenase/reductase (SDR family) member 4 like 2A; short chain dehydrogenase/reductase family 25C, member 1; short chain dehydrogenase/reductase family 25C, member 2; NADPH-dependent carbonyl reductase/NADP-retinol dehydrogenase; CR; NRDR; PHCR; PSCD; SDR-SRL; SDR25C1; SCAD-SRL;

**Gene ID** 10901

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|---------------------------------------------------------------------------------------------------------------|-----------|
| mRNA Refseq                                                                                                   | NM_021004 |
| Protein Refseq                                                                                                | NP_066284 |
| MIM                                                                                                           | 611596    |
| UniProt ID                                                                                                    | Q9BTZ2    |
|  <p>15% SDS-PAGE (3ug)</p> |           |