

Recombinant Human DHRS4 Protein, His-tagged

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

SPECIFICATION

Product Overview	Recombinant Human DHRS4(1-278aa) fused with His tag at N-terminal was expressed in E. coli.
Species	Human
Source	E.coli
ProteinLength	1-278aa
Description	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.
Form	Liquid. 20mM Tris-HCl buffer (pH7.5) containing 20% glycerol, 1mM DTT
Molecular Mass	32.1 kDa (302aa), confirmed by MALDI-TOF
AA Sequence	MGSSHHHHHH SSGLVPRGSH MGS HQNV DQAVATL QGEGLSVTGT VCHVGKAEDR ERLVATAVKL HGGIDILVSN AAVNPFFGSI MDVTEEVWDK TLDINVKAPA LMTKAVVPEM 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

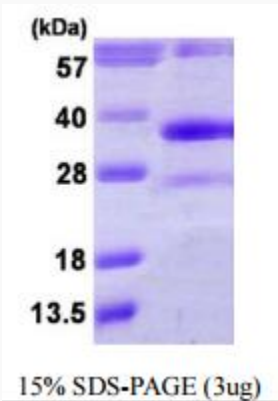
Synonyms DHRS4; dehydrogenase/reductase (SDR family) member 4; dehydrogenase/reductase SDR family member 4; FLJ11008; humNRDR; SCAD SRL; SDR SRL; SDR25C2; short chain dehydrogenase/reductase family 25C; member 2; NADP-dependent retinol dehydrogenase; peroxisomal short-chain alcohol dehydrogenase; NADPH-dependent 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
 15% SDS-PAGE (3ug)	