

AR50151PU-N**Human DHRS4 (1-278, His-tag) - Purified****Alternate names:**

Dehydrogenase/reductase SDR family member 4, NADPH-dependent carbonyl reductase/NADP-retinol dehydrogenase, NADPH-dependent retinol dehydrogenase/reductase, NRDR, PHCR, PSCD, Peroxisomal short-chain alcohol dehydrogenase, SCAD-SRL, Short-chain dehydrogenase/reductase family member 4

Quantity:

50 µg

Concentration:

0.25 mg/ml (determined by Bradford assay)

Background:

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.

Uniprot ID:[Q9BTZ2](#)**NCBI:**[NP_066284](#)**GenelD:**[10901](#)**Species:**

Human

Source:

E. coli

Format:**State:** Liquid purified protein**Purity:** >85% by SDS - PAGE**Buffer System:** 20 mM Tris-HCl buffer (pH7.5) containing 20% glycerol, 1mM DTT**Description:**

Recombinant human DHRS4 protein, fused to His-tag at N-terminus, was expressed in E.coli and purified by using conventional chromatography.

AA Sequence:

MGSSHHHHHH SGLVPRGSH MGSMMHKAGL LGLCARAWNS VRMASSGMTR RDPLANKVAL
VTASTDGIGF AIARRLAQDG AHVVVSSRKQ QNVDQAVATL QEGGLSVTGT VCHVGKAEDR
ERLVATAVKL HGGIDILVSN AAVNPFFGSI MDVTEEVWDK TLDINVKAPA LMTKAVVPDM
EKRRGGGSVVI VSSIAAFSPS PGFSPYNVSK TALLGLTKTL AIELAPRNIR VNCLAPGLIK
TSFSRMLWMD KEKEESMKET LRIRRLGEPE DCAGIVSFIC SEDASYITGE TVVVGGGTPS RL

Molecular weight: 32.1 kDa (302aa), confirmed by MALDI-TOF**Storage:**

Store undiluted at 2-8°C for one week or (in aliquots) at -20°C to -80°C for longer.

Avoid repeated freezing and thawing.

Shelf life: one year from despatch.

General Readings:

Fransen M., et al. (1999) Biochem. J. 340:561-568
Du J., et al. (2004) Yi Chuan Xue Bao. 31:661-667

Pictures:

