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# Recombinant human DHRS4 protein

Catalog Number: ATGP1326

# **PRODUCT INFORMATION**

# **Expression system**

E.coli

#### **Domain**

1-278aa

#### **UniProt No.**

O9BTZ2

#### **NCBI Accession No.**

NP 066284

#### **Alternative Names**

Dehydrogenase/reductase SDR family member 4, CR, NRDR, PHCR, PSCD, SCAD-SRL, SDR-SRL, SDR25C1, SDR25C2

## **PRODUCT SPECIFICATION**

#### **Molecular Weight**

32.1 kDa (302aa) confirmed by MALDI-TOF

## Concentration

0.25mg/ml (determined by Bradford assay)

#### **Formulation**

Liquid in. 20mM Tris-HCl buffer (pH 7.5) containing 20% glycerol, 1mM DTT

#### **Purity**

> 85% by SDS-PAGE

#### Tag

His-Tag

# **Application**

SDS-PAGE

### **Storage Condition**

Can be stored at +2C to +8C for 1 week. For long term storage, aliquot and store at -20C to -80C. Avoid repeated freezing and thawing cycles.

## **BACKGROUND**

# **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. Recombinant human DHRS4



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

# **Amino acid Sequence**

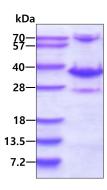
<MGSSHHHHHH SSGLVPRGSH MGSH>MHKAGL LGLCARAWNS VRMASSGMTR RDPLANKVAL VTASTDGIGF AIARRLAQDG AHVVVSSRKQ QNVDQAVATL QGEGLSVTGT VCHVGKAEDR ERLVATAVKL HGGIDILVSN AAVNPFFGSI MDVTEEVWDK TLDINVKAPA LMTKAVVPEM EKRGGGSVVI VSSIAAFSPS PGFSPYNVSK TALLGLTKTL AIELAPRNIR VNCLAPGLIK TSFSRMLWMD KEKEESMKET LRIRRLGEPE DCAGIVSFLC SEDASYITGE TVVVGGGTPS RL

#### **General References**

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

# **DATA**

#### **SDS-PAGE**



3ug by SDS-PAGE under reducing condition and visualized by coomassie blue stain.

