

Recombinant human DHRS4 protein

Catalog Number: ATGP1326

PRODUCT INFORMATION

Expression system

E.coli

Domain

1-278aa

UniProt No.

Q9BTZ2

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 QNVDAQAVATL QGEGLSVTGT VCHVGKAEDR ERLVATAVKL HGGIDILVSN AAVNPFFGSI
MDVTEEVWDK TLDINVKAPA LMTKAVVPEM EKRGGSVVI VSSIAAFSPS PGFSPYVSK TALLGLTKTL AIELAPRNIR
VNCLAPGLIK TSFSRMLWMD KEKEESMKET LRIRRLGEPE DCAGIVSFLC SEDASYITGE TVVGGGTPS RL

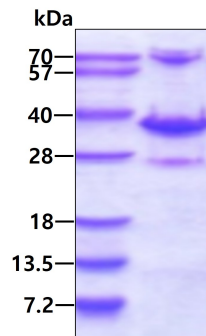
General References

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



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