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

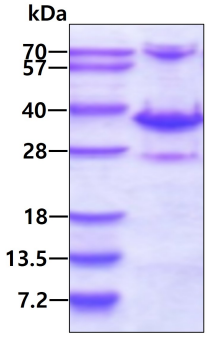
<MGSSHHHHHH SSGLVPRGSH MGSH>MHKAGL LGLCARAWNS VRMASSGMTR RDPLANKVAL VTASTDGIGF AIARRLAQDG AHVVVSSRKQ QNVDQAVATL QGEGLSVTGT VCHVGKAEDR ERLVATAVKL HGGIDILVSN AAVNPFFGSI MDVTEEVWDK TLDINVKAPA LMTKAVVPEM EKRGGGSVVI VSSIAAFSPS PGFSPYNVSK TALLGLTKTL AIELAPRNIR VNCLAPGLIK TSFSRMLWMD KEKEESMKET LRIRRLGEPE DCAGIVSFLC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