
Product Data Sheet

Product Name: DHRS4 Human
 Cat. No.: GP21559
 Batch No.: 1

Product Data

Purity	>98%	Source	Escherichia Coli.
Physical Appearance	solid	Shipping Condition	Shipped with Ice Packs.
Synonyms	Dehydrogenase/reductase SDR family member 4; NADPH-dependent carbonyl reductase/NADP-retinol dehydrogenase; CR; PHCR; NADPH-dependent retinol dehydrogenase/reductase; NRDR; humNRDR; Peroxisomal short-chain alcohol dehydrogenase; PSCD; SCAD-SRL; Short-chain dehydrogenase/reductase family member 4; DHRS4; SDR-SRL; SDR25C1; SDR25C2.		
Amino Acid Sequence	MGSSHHHHHH SSGLVPRGSH MGSHMHKAGL LGLCARAWNS VRMASSGMTR RDPLANKVAL VTASTDGIGF AIARRLAQDG AHVVVSSRKQ QNVDQAVATL QGEGLSVTGT VCHVGKAEDR ERLVATAVKL HGGIDILVSN AAVNPPFGSI MDVTEEVWDK TLDINVKAPA LMTKAVVPEM EKRGGSVVI VSSIAAFSPS PGFSPYNVSK TALLGLTKTL AIELAPRNIR VNCLAPGLIK TSFSRMLWMD KEKEESMKET LRIRRLGEPE DCAGIVSFLC SEDASYITGE TVVGGGTPS RL.		
Formulation	The DHRS4 solution (0.25mg/ml) contains 20mM Tris-HCl buffer (pH7.5), 20% glycerol and 1mM DTT.		

Introduction

Dehydrogenase/reductase SDR family member 4 (DHRS4) is a member of the short-chain dehydrogenases/reductases (SDR) family. DHRS4 reduces all trans retinal and 9-cis retinal. In addition, the DHRS4 protein can catalyze the oxidation of all trans retinol with NADP as cofactor, but with a much lower efficiency. Furthermore, 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.

Stability

Store at 4°C if entire vial will be used within 2-4 weeks. Store frozen at -20°C for longer

Caution: Product has not been fully validated for medical applications. For research use only.

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periods of time. For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA). Avoid multiple freeze-thaw cycles.

Background

DHRS4 Human Recombinant produced in E.coli is a single, non-glycosylated polypeptide chain containing 302 amino acids (1-278) and having a molecular mass of 32.1kDa. DHRS4 is fused to a 24 amino acid His-tag at N-terminus & purified by proprietary chromatographic techniques.

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