Recombinant Human Dehydrogenase/Reductase (SDR Family) Member 9, His-tagged

Cat. No. DHRS9-1561H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant human DHRS9 protein, fused to His-tag at N-terminus, was expressed in E.coli and purified by using conventional chromatography.
Species	Human
Source	E.coli
Description	DHRS9, also known as dehydrogenase/reductase SDR family member 9, functions as a homotetramer that converts both 3-alpha-tetrahydroprogesterone (allopregnanolone) and 3-alpha-androstanediol to dihydroxyprogesterone and is thought to play a role in retinoic acid biosynthesis.
Form	Liquid. In 20mM Tris-HCl buffer (pH 8.0) containing 20% glycerol, 0.1M NaCl, 2mM DTT, 0.1mM PMSF.
Molecular Weight	35.9 kDa (327aa), confirmed by MALDI-TOF.
Purity	>90% by SDS-PAGE
Concentration	0.5 mg/ml (determined by Bradford assay)
Sequences of amino acids	MGSSHHHHHH SSGLVPRGSH MGSHMRKGKL KIEDITDKYI FITGCDSGFG NLAARTFDKK GFHVIAACLT ESGSTALKAE TSERLRTVLLDVTDPENVKR TAQWVKNQVG EKGLWGLINN AGVPGVLAPT DWLTLEDYRE PIEVNLFGLI

Tel: 1-631-559-9269 1-516-512-3133
Email: info@creative-biomart.com Fax: 1-631-938-8127
45-1 Ramsey Road, Shirley, NY 11967, USA

	SVTLNMLPLV KKAQGRVINV SSVGGRLAIVGGGYTPSKYA VEGFNDSLRR DMKAFGVHVS CIEPGLFKTN LADPVKVIEK KLAIWEQLSP DIKQQYGEGY IEKSLDKLKG NKSYVNMDLSPVVECMDHAL TSLFPKTHYA AGKDAKIFWI PLSHMPAALQ DFLLLKQKAE LANPKAV
Storage	Can be stored at +4°C short term (1-2 weeks). For long term storage, aliquot and store at -20°C or -70°C. Avoid repeated freezing and thawing cycles.
Pathways	Metabolic pathways; Retinol metabolism

GENE INFORMATION

Gene Name	DHRS9 dehydrogenase/reductase (SDR family) member 9 [Homo sapiens]
Official Symbol	DHRS9
Synonyms	DHRS9; dehydrogenase/reductase (SDR family) member 9; RDHL; RDH15; RDHTBE; SDR9C4; RETSDR8; 3ALPHA-HSD; 3-alpha-HSD; OTTHUMP00000163043; OTTHUMP00000204923; OTTHUMP00000204925; OTTHUMP00000204926; OTTHUMP00000205057; retinol dehydrogenase homolog; 3-alpha hydroxysteroid dehydrogenase; short-chain dehydrogenase/reductase retSDR8; NADP-dependent retinol dehydrogenase/reductase; short chain dehydrogenase/reductase family 9C, member 4; 3alpha-HSD; dehydrogenase/reductase SDR family member 9; EC 1.1; RDH-E2; EC 1.1.1; EC 1.1.1.105
Gene ID	10170
mRNA Refseq	NM_001142270
Protein Refseq	NP_001135742

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MIM	612131
UniProt ID	Q9BPW9
Chromosome Location	2q31.1
Function	alcohol dehydrogenase (NAD) activity; binding NAS PubMed; retinol dehydrogenase activity; testosterone dehydrogenase (NAD+) activity

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