Recombinant Human SDR16C5, His-tagged

Cat. No. SDR16C5-7549H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant human SDR16C5 protein, fused to His-tag at N-terminus, was expressed in E.coli and purified by using conventional chromatography techniques.
Species	Human
Source	E.coli
ProteinLength	32-269aa
Antigen Description	Short chain dehydrogenase/reductase family 16C, member5, also known as SDR16C5, is active in both the oxidative and reductive directions. This protein oxidizes all-trans-retinol in all-trans-retinaldehyde. No activity was detected with 11-cis-retinol or 11-cis-retinaldehyde as substrates with either NAD+/NADH or NADP+/NADPH.
Form	Liquid. In 20mM Tris-HCl buffer (pH 8.0) containing 0.15M NaCl, 10% glycerol, 1mM DTT
Molecular Mass	28.3 kDa (261aa) confirmed by MALDI-TOF
AA Sequence	MGSSHHHHHH SSGLVPRGSH MGSPKPRKNV AGEIVLITGA GSGLGRLLAL QFARLGSVLV LWDINKEGNE ETCKMAREAG ATRVHAYTCD CSQKEGVYRV ADQVKKEVGD VSILINNAGI VTGKKFLDCP DELMEKSFDV NFKAHLWTYK AFLPAMIAND HGHLVCISSS AGLSGVNGLA DYCASKFAAF GFAESVFVET FVQKQKGIKT TIVCPFFIKT GMFEGCTTGC PSLLPILEPK YAVEKIVEAI

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	LQEKMYLYMP K
Purity	>90% as determined by SDS - PAGE
Applications	SDS-PAGE
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.
Concentration	1 mg/ml

GENE INFORMATION

Gene Name	SDR16C5 short chain dehydrogenase/reductase family 16C, member 5 [Homo sapiens]
Official Symbol	SDR16C5
Synonyms	SDR16C5; short chain dehydrogenase/reductase family 16C, member 5; epidermal retinol dehydrogenase 2; RDH E2; RDHE2; EPHD-2; retSDR2; epidermal retinal dehydrogenase 2; retinal short chain dehydrogenase reductase; retinal short-chain dehydrogenase reductase 2; short-chain dehydrogenase/reductase family 16C member 5; RDH#2; RDH-E2; FLJ33105;
Gene ID	195814
mRNA Refseq	NM_138969
Protein Refseq	NP_620419
MIM	608989

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UniProt ID	Q8N3Y7
Chromosome Location	8q12.1
Pathway	Retinol metabolism, organism-specific biosystem; Retinol metabolism, conserved biosystem; retinoate biosynthesis I, conserved biosystem; retinoate biosynthesis I, organism-specific biosystem;
Function	nucleotide binding; oxidoreductase activity; retinol dehydrogenase activity;

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