Recombinant Human KDSR, His-tagged

Cat. No. KDSR-26267TH **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant fragment corresponding to amino acids 26-270 of Human FVT1 with an N terminal His tag; 266 amino acids with tag, MWt 29 kDa.
Species	Human
Source	E.coli
ProteinLength	245 amino acids
Description	The protein encoded by this gene catalyzes the reduction of 3-ketodihydrosphingosine to dihydrosphingosine. The putative active site residues of the encoded protein are found on the cytosolic side of the endoplasmic reticulum membrane. A chromosomal rearrangement involving this gene is a cause of follicular lymphoma, also known as type II chronic lymphatic leukemia. The mutation of a conserved residue in the bovine ortholog causes spinal muscular atrophy.
Conjugation	HIS
Molecular Weight	29.000kDa inclusive of tags
Tissue specificity	Expressed in all tissues examined. Highest expression in placenta. High expression in lung, kidney, stomach and small intestine, low expression in heart, spleen and skeletal muscle. Weakly expressed in normal hematopoietic tissues. Higher expression in so

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

Form	Liquid
Purity	>90% by SDS-PAGE
Storage buffer	Preservative: NoneConstituents: 10% Glycerol, 0.1M Sodium chloride, 20mM Tris HCl, 1mM DTT, 0.1mM PMSF, pH 8.0
Storage	Shipped at 4°C. Upon delivery aliquot and store at -20°C or -80°C. Avoid repeated freeze / thaw cycles.
Sequences of amino acids	MGSSHHHHHHSSGLVPRGSHMKPLALPGAHVVVTGGSSGIGKCIAIECYKQGAFITL VARNEDKLLQAKKEIEMHSINDKQVVLCISVDVSQDYNQVENVIKQAQEKLGPVDML VNCAGMAVSGKFEDLEVSTFERLMSINYLGSVYPSRAVITTMKERRVGRIVFVSSQA GQLGLFGFTAYSASKFAIRGLAEALQMEVKPYNVYITVAYPPDTDTPGFAEENRTKP LETRLISETTSVCKPEQVAKQIVKDAIQGNFNSSLGSD
Sequence Similarities	Belongs to the short-chain dehydrogenases/reductases (SDR) family.

GENE INFORMATION

Gene Name	KDSR 3-ketodihydrosphingosine reductase [Homo sapiens]
Official Symbol	KDSR
Synonyms	KDSR; 3-ketodihydrosphingosine reductase; follicular lymphoma variant translocation 1 , FVT1; 3 dehydrosphinganine reductase; DHSR; SDR35C1; short chain dehydrogenase/reductase family 35C; member 1;
Gene ID	2531

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

mRNA Refseq	NM_002035
Protein Refseq	NP_002026
MIM	136440
Uniprot ID	Q06136
Chromosome Location	18q21
Pathway	Metabolic pathways, organism-specific biosystem; Metabolism of lipids and lipoproteins, organism-specific biosystem; Sphingolipid metabolism, organism-specific biosystem; Sphingolipid metabolism, organism-specific biosystem; Sphingolipid metabolism, conserved biosystem;
Function	3-dehydrosphinganine reductase activity; nucleotide binding; oxidoreductase activity;

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