

Recombinant Human KDSR protein, His-tagged

Cat. No. KDSR-3461H Lot. No. (See product label)

SPECIFICATION

Product Overview	Recombinant Human KDSR(26-270aa) fused with His tag at N-terminal was expressed in E. coli.
Species	Human
Source	E.coli
ProteinLength	26-270 a.a.
Description	KDSR, also known as 3-ketodihydrosphingosine reductase, is a 332 amino acid multi-pass membrane protein that localizes to the endoplasmic reticulum (ER) and belongs to the short-chain dehydrogenases/reductases (SDR) family. KDSR is a secreted protein which is weakly expressed in hematopoietic tissue. Also this protein catalyzes the reduction of 3-ketodihydrosphingosine (KDS) to dihydrosphingosine (DHS).
Form	Liquid. In 20mM Tris-HCl buffer (pH 8.0) containing 1mM DTT, 10% glycerol, 0.1M NaCl, 0.1mM PMSF
Molecular Mass	29.0 kDa (266aa) confirmed by MALDI-TOF
AA Sequence	MGSSHHHHHH SSGLVPRGSH MSQDYNQVENV IKQAQEKLGPDV DMLVNCAGM AVSGKFEDLE VSTFERLMSI NYLGSVYPSR AVITTMKERR VGRIVFVSSQ AGQLGLFGFTKPLALPGAH VVVTGGSSGI GKCIAIECYK QGAFITLVAR NEDKLLQAKK EIMHSINDK QVVLCSVDVAYSASKFAIR GLAEALQMEV KPYNVYITVA YPPDTPDPGF AEENRTKPLE TRLISETTSV CKPEQVAKQI

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VKDAIQGNFN SSLGSD

Purity >90% by SDS - PAGE

Storage Can be stored at +4 centigrade short term (1-2 weeks). For long term storage, aliquot and store at -20 centigrade or -70 centigrade. Avoid repeated freezing and thawing cycles.

Concentration 0.5 mg/ml (determined by Bradford assay)

GENE INFORMATION

Gene Name [KDSR 3-ketodihydrospingosine reductase \[Homo sapiens \]](#)

Official Symbol [KDSR](#)

Synonyms KDSR; 3-ketodihydrospingosine reductase; follicular lymphoma variant translocation 1 , FVT1; 3 dehydrospinganine reductase; DHSR; SDR35C1; short chain dehydrogenase/reductase family 35C; member 1; FVT-1; KDS reductase; 3-dehydrospinganine reductase; follicular variant translocation protein 1; follicular lymphoma variant translocation 1; short chain dehydrogenase/reductase family 35C, member 1; FVT1; FLJ36555; FLJ92680;

Gene ID [2531](#)

mRNA Refseq [NM_002035](#)

Protein Refseq [NP_002026](#)

MIM [136440](#)

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UniProt ID	Q06136
Chromosome Location	18q21
Pathway	Ceramide biosynthesis, organism-specific biosystem; Ceramide biosynthesis, conserved biosystem; Metabolic pathways, organism-specific biosystem; Metabolism, organism-specific biosystem; Metabolism of lipids and lipoproteins, organism-specific biosystem; Sphingolipid de novo biosynthesis, organism-specific biosystem; Sphingolipid metabolism, organism-specific biosystem;
Function	3-dehydrosphinganine reductase activity; nucleotide binding; oxidoreductase activity;

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