
Product Data Sheet

Product Name: KDSR Human
 Cat. No.: GP21836
 Batch No.: 1

Product Data

Purity	>98%	Source	Escherichia Coli.
Physical Appearance	solid	Shipping Condition	Shipped with Ice Packs.
Synonyms	3-ketodihydrosphingosine reductase; KDS reductase; 3-dehydrosphinganine reductase; Follicular variant translocation protein 1; FVT-1; KDSR; FVT1; DHSR; SDR35C1; FLJ36555; FLJ92680.		
Amino Acid Sequence	MGSSHHHHHH SGLVPRGSH MKPLALPGAH VVTGGSSGI GKCIAIECYK QGAFITLVAR NEDKLLQAKK EIEMHSINDK QVLCISVDV SQDYNQVENV IKQAQEKLGPDVMLVNCAGM AVSGKFEDLE VSTFERLMSI NYLGSVYPSR AVITTMKERR VGRIVFVSSQ AGQLGLFGFT AYSASKFAIR GLAEALQMEV KPYNVYITVA YPPDTPGF AEENRTKPLE TRLISETTSV CKPEQVAKQI VKDAIQGNFN SSLGSD.		
Formulation	The KDSR solution (0.5 mg/ml) contains 20mM Tris-HCl buffer (pH 8.0), 1mM DTT, 10% glycerol, 0.1M NaCl and 0.1mM PMSF.		

Introduction

3-ketodihydrosphingosine reductase (KDSR) is a 332 amino acid multi-pass membrane protein which localizes to the ER and is a member of the short-chain dehydrogenases/reductases (SDR) family. KDSR is a secreted protein that is weakly expressed in hematopoietic tissue. Furthermore, KDSR catalyzes the reduction of 3-ketodihydrosphingosine (KDS) to dihydrosphingosine (DHS). The putative active site residues of KDSR are found on the cytosolic side of the endoplasmic reticulum membrane. Chromosomal rearrangement in the KDSR gene is a cause of follicular lymphoma, aka type II chronic lymphatic leukemia.

Stability

Store at 4°C if entire vial will be used within 2-4 weeks. Store, frozen at -20°C for longer periods of time. For long term storage it is recommended to add a carrier protein (0.1%

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

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HSA or BSA). Avoid multiple freeze-thaw cycles.

Background

KDSR Human Recombinant fused with a21 amino acid His tag at N-terminus produced in E.Coli is a single, non-glycosylated, polypeptide chain containing 266 amino acids (26-270 a.a.) and having a molecular mass of 29kDa. The KDSR is purified by proprietary chromatographic techniques.

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