

## KDSR Human

**Description:** KDSR Human Recombinant fused with a 21 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.

**Catalog #:** ENPS-099

For research use only.

**Synonyms:** 3-ketodihydrosphingosine reductase, KDS reductase, 3-dehydrosphinganine reductase, Follicular variant translocation protein 1, FVT-1, KDSR, FVT1, DHSR, SDR35C1, FLJ36555, FLJ92680.

**Source:** Escherichia Coli.

**Physical Appearance:** The KDSR is supplied as a sterile filtered colorless solution.

**Amino Acid Sequence:** MGSSHHHHHH SSGLVPRGSH MKPLALPGAH VVVTGGSSGI  
GKCIAIECYK QGAFITLVAR NEDKLLQAKK EIMHSINDK QVVLCISVDV SQDYNQVENV  
IKQAQEKLGPDV DMLVNCAGM AVSGKFEDLE VSTFERLMSI NYLGSVYPSR AVITTMKERR  
VGRIVFVSSQ AGQLGLFGFT AYSASKFAIR GLAEALQMEV KPNVYITVA YPPDTPDTPGF  
AEENRTKPLE TR

**Purity:** KDSR purity was found to be greater than 90.0% as determined by SDS-PAGE.

**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.

**Stability:**

KDSR should be stored desiccated below -18°C. For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA). Please prevent freeze-thaw cycles.

**Usage:**

NeoBiolab's products are furnished for LABORATORY RESEARCH USE ONLY. The product may not be used as drugs, agricultural or pesticidal products, food additives or household chemicals.

**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.

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