# Recombinant human KDSR protein

Catalog Number: ATGP0948

## PRODUCT INFORMATION

**Expression system**
E.coli

**Domain**
26-270aa

**UniProt No.**
Q06136

**NCBI Accession No.**
NP_002026

**Alternative Names**
3-ketodihydrosphingosine reductase, DHSR, FVT1

## PRODUCT SPECIFICATION

**Molecular Weight**
29.0 kDa (266aa) confirmed by MALDI-TOF

**Concentration**
0.5mg/ml (determined by Bradford assay)

**Formulation**
Liquid in. 20mM Tris-HCl buffer (pH 8.0) containing 1mM DTT, 10% glycerol, 0.1M NaCl, 0.1mM PMSF

**Purity**
> 90% by SDS-PAGE

**Tag**
His-Tag

**Application**
SDS-PAGE

**Storage Condition**
Can be stored at +2C to +8C for 1 week. For long term storage, aliquot and store at -20C to -80C. Avoid repeated freezing and thawing cycles.

## BACKGROUND

**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) Recombinant human KDSR protein, fused to His-tag at N-terminus, was expressed in E. coli and purified by using conventional chromatography techniques.

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### Amino acid Sequence

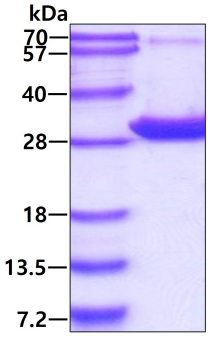
<MGSSHHHHHH SSGLVPRGSH M>KPLALPGAH VVVTGGSSGI GKCIAIECYK QGAFITLVAR NEDKLLQAKK EIEMHSINDK QVVLCISVDV SQDYNQVENV IKQAQEKLGP VDMLVNCAGM AVSGKFEDLE VSTFERLMSI NYLGSVYPSR AVITTMKERR VGRIVFVSSQ AGQLGLFGFT AYSASKFAIR GLAEALQMEV KPYNVYITVA YPPDTDTPGF AEENRTKPLE TRLISETTSV CKPEQVAKQI VKDAIQGNFN SSLGSD

### General References

Kihara A., et al. (2004) J. Biol. Chem. 279:49243-49250
Parkinson, N.J., et al. (2008) Neuromuscul. Disord. 18: 394-397.

## DATA

### SDS-PAGE




3ug by SDS-PAGE under reducing condition and visualized by coomassie blue stain.