

# Product Information

## **MemDX™ Membrane Protein Human KDSR (3-ketodihydrosphingosine reductase)**

### **Expressed *in vitro* E.coli expression system, Full Length of Mature Protein**

Cat. No.: **MPX1618K**

This product is for research use only and is not intended for diagnostic use.

This product is a Human KDSR membrane protein expressed *in vitro* E.coli expression system. The protein is for research use only and is not approved for use in humans or in clinical diagnosis.

### Product Specifications

#### **Host Species**

Human

#### **Target Protein**

KDSR

#### **Protein Length**

Full Length of Mature Protein

#### **Protein Class**

Oxidoreductase

#### **TMD**

2

#### **Sequence**

KPLALPGAHVVVVTGGSSGIGKCIAIECYKQGAFITLVARNEDKLLQAKKEIEMHSINDKQVVLCSVDVSQDYNQVENVIKQAQEKLG

### Product Description

#### **Expression Systems**

*in vitro* E.coli expression system

#### **Tag**

10xHis tag at the N-terminus

#### **Protein Format**

Soluble

#### **Form**

Liquid or Lyophilized powder

#### **Buffer**

Tris/PBS-based buffer, 6% Trehalose, pH 8.0

### Storage

Aliquot and store at -20°C or lower. For long term storage, we recommend to store at -70°C or lower. Avoid freeze/thaw cycles.

### Target

#### Target Protein

KDSR

#### Full Name

3-ketodihydrosphingosine reductase

#### Introduction

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.

#### Alternative Names

KDSR; DHSR; FVT1; EKVP4; SDR35C1; 3-dehydrosphinganine reductase; FVT-1; KDS reductase; follicular lymphoma variant translocation 1; follicular variant translocation protein 1; short chain dehydrogenase/reductase family 35C member 1; 3-ketodihydrosphingosine reductase

#### Gene ID

[2531](#)

#### UniProt ID

[Q06136](#)