

Recombinant Full Length Human KDSR Protein, C-Flag-tagged

Cat. No. KDSR-1045HFL Lot. No. (See product label)

SPECIFICATION

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| Product Overview | Recombinant Full Length Human KDSR Protein, fused to Flag-tag at C-terminus, was expressed in Mammalian cells. |
| Species | Human |
| Source | Mammalian Cells |
| Description | 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. |
| Form | 25 mM Tris HCl, pH 7.3, 100 mM glycine, 10% glycerol. |
| Molecular Mass | 33.4 kDa |
| AA Sequence | <p>MLLLAAAFVAVFVLLLYMVSPKPLALPGAHVVVTGGSSGIGKICIAIECYKQGAFIT LVARNEKLL QAKKEIEMHSINDKQVVLCSVDVSQDYNQVENVIKQAQEKLGPDVDM LVNCAGMAVSGKFEDLEVSTFER LMSINYLGSVYPSRAVITTMKERRVGRIVFVSSQ AGQLGLFGFTAYSASKFAIRGLAEALQMEVKPYNVY ITVAYPPDTPGFAEENRTK PLETRLISETTSVCKPEQVAKQIVKDAIQGNFNSSLGSDGYMLSALTCG MAPVTSITEGLQQVVTMGLFRTIALFYLGSDSIVRRCMMQREKSENADKTATRTRP LEQKLISEEDLAANDILDYKDDDDKV</p> |

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| Purity | > 80% as determined by SDS-PAGE and Coomassie blue staining. |
| Stability | Stable for 12 months from the date of receipt of the product under proper storage and handling conditions. Avoid repeated freeze-thaw cycles. |
| Storage | Store at -80 centigrade. |
| Concentration | >50 ug/mL as determined by microplate BCA method. |
| Preparation | Recombinant protein was captured through anti-DDK affinity column followed by conventional chromatography steps. |
| Protein Families | Druggable Genome, Transmembrane |
| Protein Pathways | Metabolic pathways, Sphingolipid metabolism |
| Full Length | Full L. |

GENE INFORMATION

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|------------------------|---|
| Gene Name | KDSR 3-ketodihydrospingosine reductase [Homo sapiens (human)] |
| Official Symbol | KDSR |
| Synonyms | DHSR; FVT1; EKVP4; SDR35C1 |
| Gene ID | 2531 |
| mRNA Refseq | NM_002035.4 |
| Protein Refseq | NP_002026.1 |

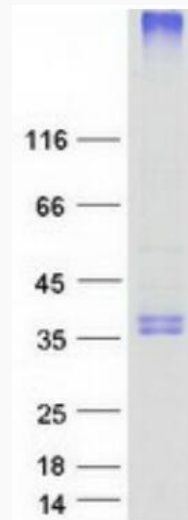
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MIM 136440

UniProt ID Q06136



Coomassie blue staining of purified KDSR protein.

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