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# Product datasheet for TP301153M

## FVT1 (KDSR) (NM_002035) Human Recombinant Protein

### Product data:

| | |
|---|---|
| **Product Type:** | Recombinant Proteins |
| **Description:** | Recombinant protein of human 3-ketodihydrosphingosine reductase (KDSR), 100 µg |
| **Species:** | Human |
| **Expression Host:** | HEK293T |
| **Expression cDNA Clone or AA Sequence:** | >RC201153 protein sequence<br>Red=Cloning site Green=Tags(s)<br><br>MLLLAAAFLVAFVLLLYMVSPLISPKPLALPGAHVVVTGGSSGIGKCIAIECYKQGAFITLVARNEDKLL<br>QAKKEIEMHSINDKQVVLCISVDVSQDYNQVENVIKQAQEKLGPVDMLVNCAGMAVSGKFEDLEVSTFER<br>LMSINYLGSVYPSRAVITTMKERRVGRIVFVSSQAGQLGLFGFTAYSASKFAIRGLAEALQMEVKPYNVY<br>ITVAYPPDTDTPGFAEENRTKPLETRLISETTSVCKPEQVAKQIVKDAIQGNFNSSLGSDGYMLSALTCG<br>MAPVTSITEGLQQVVTMGLFRTIALFYLGSFDSIVRRCMMQREKSENADKTA<br><br>TRTRPLEQKLISEEDLAANDILDYKDDDDKV |
| **Tag:** | C-Myc/DDK |
| **Predicted MW:** | 33.4 kDa |
| **Concentration:** | >0.05 µg/µL as determined by microplate BCA method |
| **Purity:** | > 80% as determined by SDS-PAGE and Coomassie blue staining |
| **Buffer:** | 25 mM Tris-HCl, 100 mM glycine, pH 7.3, 10% glycerol |
| **Preparation:** | Recombinant protein was captured through anti-DDK affinity column followed by conventional chromatography steps. |
| **Note:** | For testing in cell culture applications, please filter before use. Note that you may experience some loss of protein during the filtration process. |
| **Storage:** | Store at -80°C. |
| **Stability:** | Stable for 12 months from the date of receipt of the product under proper storage and handling conditions. Avoid repeated freeze-thaw cycles. |
| **RefSeq:** | NP_002026 |
| **Locus ID:** | 2531 |

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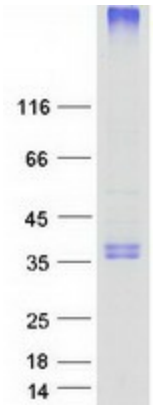
|---|---|
| **UniProt ID:** | Q06136, A0A024R292, B4DMX0 |
| **RefSeq Size:** | 5198 |
| **Cytogenetics:** | 18q21.33 |
| **RefSeq ORF:** | 996 |
| **Synonyms:** | DHSR; EKVP4; FVT1; SDR35C1 |
| **Summary:** | The protein encoded by this gene catalyzes the reduction of 3-ketodihydrosphingosine to dihydrosphingosine. 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. [provided by RefSeq, Jul 2008] |
| **Protein Families:** | Druggable Genome, Transmembrane |
| **Protein Pathways:** | Metabolic pathways, Sphingolipid metabolism |

## Product images:




Coomassie blue staining of purified KDSR protein (Cat# [TP301153]). The protein was produced from HEK293T cells transfected with KDSR cDNA clone (Cat# [RC201153]) using MegaTran 2.0 (Cat# [TT210002]).