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# Product datasheet for TP507091

## Fads2 (NM_019699) Mouse Recombinant Protein

### Product data:

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| **Product Type:** | Recombinant Proteins |
| **Description:** | Purified recombinant protein of Mouse fatty acid desaturase 2 (Fads2), with C-terminal MYC/DDK tag, expressed in HEK293T cells, 20ug |
| **Species:** | Mouse |
| **Expression Host:** | HEK293T |
| **Expression cDNA Clone or AA Sequence:** | >MR207091 protein sequence<br>Red=Cloning site Green=Tags(s)<br><br>MGKGGNQGEGSTERQAPMPTFRWEEIQKHNLRTDRWLVIDRKVYNVTKWSQRHPGGHRVIGHYSGEDATD<br>AFRAFHLDLDFVGKFLKPLLIGELAPEEPSLDRGKSSQITEDFRALKKTAEDMNLFKTNHLFFFLLLSHI<br>IVMESLAWFILSYFGTGWIPTLVTAFVLATSQAQAGWLQHDYGHLSVYKKSIWNHVVHKFVIGHLKGASA<br>NWWNHRHFQHHAKPNIFHKDPDIKSLHVFVLGEWQPLEYGKKKLKYLPYNHQHEYFFLIGPPLLIPMYFQ<br>YQIIMTMISRRDWVDLAWAISYYMRFFYTYIPFYGILGALVFLNFIRFLESHWFVWVTQMNHLVMEIDLD<br>HYRDWFSSQLAATCNVEQSFFNDWFSGHLNFQIEHHLFPTMPRHNLHKIAPLVKSLCAKHGIEYQEKPLL<br>RALIDIVSSLKKSGELWLDAYLHK<br><br>TRTRPLEQKLISEEDLAANDILDYKDDDDKV |
| **Tag:** | C-MYC/DDK |
| **Predicted MW:** | 52.4 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 |
| **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 after receiving vials. |
| **Stability:** | Stable for 12 months from the date of receipt of the product under proper storage and handling conditions. Avoid repeated freeze-thaw cycles. |

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| **RefSeq:** | NP_062673 |
| **Locus ID:** | 56473 |
| **UniProt ID:** | Q9Z0R9 |
| **RefSeq Size:** | 1508 |
| **Cytogenetics:** | 19 A |
| **RefSeq ORF:** | 1332 |
| **Synonyms:** | 2900042M13Rik; Fadsd2 |
| **Summary:** | Acts as a fatty acyl-coenzyme A (CoA) desaturase that introduces a cis double bond at carbon 6 of the fatty acyl chain. Involved in biosynthesis of highly unsaturated fatty acids (HUFA) from the essential polyunsaturated fatty acids (PUFA) linoleic acid (LA) (18:2n-6) and alpha-linolenic acid (ALA) (18:3n-3) precursors. Catalyzes the first and rate limiting step in this pathway which is the desaturation of LA (18:2n-6) and ALA (18:3n-3) into gamma-linoleate (GLA) (18:3n-6) and stearidonate (18:4n-3), respectively (PubMed:9867867). Subsequently, in the biosynthetic pathway of HUFA n-3 series, desaturates tetracosapentaenoate (24:5n-3) to tetracosahexaenoate (24:6n-3), which is then converted to docosahexaenoate (DHA)(22:6n-3), an important lipid for nervous system function (By similarity). Desaturates palmitate to produce the mono-unsaturated fatty acid sapienate, the most abundant fatty acid in sebum (By similarity). Also desaturates (11E)-octadecenoate (trans-vaccenoate)(18:1n-9), a metabolite in the biohydrogenation pathway of LA (18:2n-6) (By similarity).[UniProtKB/Swiss-Prot Function] |