

Product datasheet for TP526165

Fa2h (NM_178086) Mouse Recombinant Protein

Product data:

Product Type:	Recombinant Proteins
Description:	Purified recombinant protein of Mouse fatty acid 2-hydroxylase (Fa2h), with C-terminal MYC/DDK tag, expressed in HEK293T cells, 20ug
Species:	Mouse
Expression Host:	HEK293T
Expression cDNA Clone or AA Sequence:	>MR226165 protein sequence Red=Cloning site Green=Tags(s) MAPAPPPAASFTPAEVQRRLAAGACWVRRGASLYDLTSFVRHHPGGEQLLLARAGQDISADLDGPPHRHS DNARRWLEQYYVVELRADPQDPTENGAVASAETQKTDPALEPQFKVVDWDKDLVDWQKPLLWQVGHGK YDEWVHQPVARPIRLFHSDLIEAFSKTVWYSVPIIWWPLVLYLSWSYYRTLTDNIRLFASLTREYSMMM PESVFIGLFVLGMLFWTFVEYVIHRFLFHMKPPSNSHYLIMLHFVVMHGQHHKAPFDGSRVFPVPASLV IAFFYVFLRLILPETVGGIIFAGLLGYVLYDMTHYYLHFGSPHKGSYLYNMKAHHVKKHHFEYQKSGFGI STKLWDYFFHTLIPEEAHPKMQ TRTRPLEQKLISEEDLAANDILDYKDDDDKV
Tag:	C-MYC/DDK
Predicted MW:	43 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.
RefSeq:	NP_835187
Locus ID:	338521
UniProt ID:	Q5MPPQ



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RefSeq Size: 2492

Cytogenetics: 8 E1

RefSeq ORF: 1119

Synonyms: FAAH; Faxdc1; G630055L08Rik

Summary: Catalyzes stereospecific hydroxylation of free fatty acids at the C-2 position to produce (R)-2-hydroxy fatty acids, which are building blocks of sphingolipids and glycosphingolipids common in neural tissue and epidermis (PubMed:15658937, PubMed:16998236). Plays an essential role in the synthesis of galactosphingolipids of the myelin sheath (PubMed:15658937, PubMed:18815260). Responsible for the synthesis of sphingolipids and glycosphingolipids involved in the formation of epidermal lamellar bodies, critical for skin permeability barrier (By similarity). Participates in the synthesis of glycosphingolipids and a fraction of type II wax diesters in sebaceous gland, specifically regulating hair follicle homeostasis (PubMed:21628453). Involved in the synthesis of sphingolipids of plasma membrane rafts, controlling lipid raft mobility and trafficking of raft-associated proteins (PubMed:22517924).[UniProtKB/Swiss-Prot Function]