

Product datasheet for PH323780

FADS2 (NM_004265) Human Mass Spec Standard

Product data:

Product Type:	Mass Spec Standards
Description:	FADS2 MS Standard C13 and N15-labeled recombinant protein (NP_004256)
Species:	Human
Expression Host:	HEK293
Expression cDNA Clone or AA Sequence:	RC223780
Predicted MW:	52.1 kDa
Protein Sequence:	>RC223780 representing NM_004265 Red=Cloning site Green=Tags(s)

MGKGGNQGEAAEREVSPTFSWEEIQKHNLRTDRWLVIDRKVYNITKWSIQHPGGQRVIGHYAGEDATD
AFRAFHPDLEFVGKFLKPLLIGELAPEEPSQDHGKNSKITEDFRALRKTAEEDMNLFKTNHVFFLLLLLAHI
IALESIAWFTVFYFGNGWIPTLITAFVLATSQAQAGWLQHDYGHLSVYRKPKNHNLVHKFVIGHLKGASA
NWNHRHFQHHAKPNIFHKDPDNMLHVFVLGEWQPIEYGKCKLKYLPYNNHQHEYFFLIGPPLLIPMYFQ
YQIIMTMIVHKNWVDLAWAVSYIRFFITYIPFYGILGALLFLNFIREFLESHWFVWVTQMNHIVMEIDQE
AYRDWFSSQLTATCNVEQSFFNDWFSGHLNFQIEHHLFPTMPRHNLHKIAPLVKSLCAKHGIEYQEKPLL
RALLDIIRSLKSGKLWLDAYLHK

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Tag:	C-Myc/DDK
Purity:	> 80% as determined by SDS-PAGE and Coomassie blue staining
Concentration:	>0.05 µg/µL as determined by microplate BCA method
Labeling Method:	Labeled with [U- ¹³ C ₆ , ¹⁵ N ₄]-L-Arginine and [U- ¹³ C ₆ , ¹⁵ N ₂]-L-Lysine
Buffer:	25 mM Tris-HCl, 100 mM glycine, pH 7.3
Storage:	Store at -80°C. Avoid repeated freeze-thaw cycles.
Stability:	Stable for 3 months from receipt of products under proper storage and handling conditions.
RefSeq:	<u>NP_004256</u>
RefSeq Size:	3149
RefSeq ORF:	1332
Synonyms:	D6D; DES6; FADSD6; LLCDL2; SLL0262; TU13



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Locus ID: 9415

UniProt ID: [O95864](#)

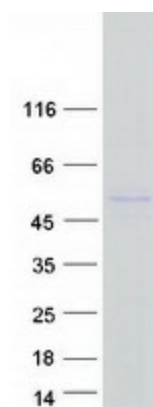
Cytogenetics: 11q12.2

Summary: The protein encoded by this gene is a member of the fatty acid desaturase (FADS) gene family. Desaturase enzymes regulate unsaturation of fatty acids through the introduction of double bonds between defined carbons of the fatty acyl chain. FADS family members are considered fusion products composed of an N-terminal cytochrome b5-like domain and a C-terminal multiple membrane-spanning desaturase portion, both of which are characterized by conserved histidine motifs. This gene is clustered with family members at 11q12-q13.1; this cluster is thought to have arisen evolutionarily from gene duplication based on its similar exon/intron organization. Alternative splicing results in multiple transcript variants encoding different isoforms. [provided by RefSeq, Jul 2013]

Protein Families: Transmembrane

Protein Pathways: alpha-Linolenic acid metabolism, Biosynthesis of unsaturated fatty acids, PPAR signaling pathway

Product images:



Coomassie blue staining of purified FADS2 protein (Cat# [TP323780]). The protein was produced from HEK293T cells transfected with FADS2 cDNA clone (Cat# [RC223780]) using MegaTran 2.0 (Cat# [TT210002]).