

Product datasheet for **PH308644**

Fatty Acid Synthase (FASN) (NM_004104) Human Mass Spec Standard

Product data:

Product Type:	Mass Spec Standards
Description:	FASN MS Standard C13 and N15-labeled recombinant protein (NP_004095)
Species:	Human
Expression Host:	HEK293
Expression cDNA Clone or AA Sequence:	RC208644
Predicted MW:	273.2 kDa



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Protein Sequence: >RC208644 representing NM_004104
 Red=Cloning site Green=Tags(s)

MEEVVIAGMSGKLPESENLQEFWDNLIGGVDVMTDDRRWKAGLYGLPRRSGKLDL SRFDASFFGVHPK
 QAHTMDPQLRLLLEVTYEAIVDGGINPDSL RGTHTGVWVGVSGSETSEALSRDPETLVGYSMVGCRAMM
 ANRLSFFFDFRGP SIALDTACSSSLMALQNA YQAIHSGQC PAAI VGGINVLKPN TSVQFLRLGML SPEG
 TCKAFDTAGNGYCRSEGVAVLLTKKSLARRVYATILNAGTNTDGFKEQGVTFPSGDIQEQLIRSLYQSA
 GVAPESFEYIEAHGTGTKVGD PQELNGITRALCATRQEPLLIGSTKSNMGHPEPASGLAALAKVLLSLEH
 GLWAPNLHFHSPNPEIPALLDGR LQVVDQPLPVRGGNVGINSFGFGGSNVHII LRPN TQPPAPAPHATL
 PRLLRASGRTP EAVQK LLEQGLRHSQDLAFLSMLNDIAAVPATAMPFRGYAVLGGERRGPEVQV PAGER
 PLWFCISGMGTQWRGMGLSMLRDRFRDSILRSDEAVKPFGLKVSQ LLLSTDESTFDDIVHSFVSLTAIQ
 IGLIDLSCMGLRPDGI VGHSLGEVACGYADGCLSQEEAVLAAYWRGQC IKAHLPPGAMA AVLSWEEC
 KQRCPPGVVPACHNSKDTVTISGPQAPVFEFVEQLRKEGVFAKEVRTGGMAFHSYFMEAIAPLLQELKK
 VIREPKPRSARWLSTSIPEAQWHSSLARTSSAEYNNVNLVSPVLFQEALWHVPEHAVVLEIAPHALLQAV
 LKRGLKPSCTIIPLMKKDHRDNL EFLLAGIGRLHL SGIDANPNALFPPVEFPAPRG TPLISPLIKWDHSL
 AWDVPAAEDEF PNGSGSPSAAIYNIDTSSESPDH YLVDHTLDGRVLPATGYLSIVWKT LARALGLGVEQL
 PVVFEDVVLHQATILPKTGTVSL EVRLEASRAFEVSENGNLVVS GKVYQWDDPDR LFDHPESPTPNPT
 EPLFLAQAEVYKELRLRGYDYGPHFQGI LEASLEGDSGRLLWKDNWVSFMDTMLQMSILGSAKHGLYLP
 RVTAIHIDPATHRQKLYLQDKAQVADV VVSRWLRVTVAGGVHISGLHTESAPRRQEQQVPILEKFCFT
 PHTEEGCLSERAA LQEELQLCKGLVQALQTTVTQQGLKMVVPGLDGAQIPRDP SQQELPRLLSAACRLQL
 NGNLQLELAQVLAQERPKLPEDPLL SGLLDSPALKA CLDTAVENMPSLKMKVVEVL AGHGLYSRIPGLL
 SPHPLLQLSYTADRHPQALEAAQAE LQQHDVAQGWDPADPAPSALGSADLLVCNCAVAALGDPASALS
 NMVAALREGGFLLLHTLLRGHPLGDI VAFLTSTEPQYGGI LSQDAWESLFSRVSLRLVLKKS FYGSTL
 FLCRRPTPQDSPIFLPVDDT SFRWVESLKGILADEDSSRPVWLKAINCATSGV VGLVNCLRREP GGNRLR
 CVLLSNLSSTSHVPEVDPGSAELQKVLQGDLMNVYRDGAWGAFRHFLL EEDKPEPTAHAFVSTLTRGD
 LSSIRWVCSSLRHAQPTCPGAQLCTVYYASLNFRD IMLATGKLS PDAIPGK WTSQDSLLGMEFSGRDASG
 KRVMGLVPAKGLATSVLLSPDFLWDVPSNWTLEEAASVPV VYSTAYYALVVRGRV RGETLLIHSGSGGV
 GQAAIAIALSLGCRVFTTVGSAEKRAYLQARFPQLDSTSFANSRDT SFEQHV LWHGGKGVLDVLSLAE
 EKLQASVRCLATHGRFLEIGKFDLSQN HPLGMAIFLKNVTFHGVLLDAFFNESSADWRE VVALVQAGIRD
 GVVRLKCTVFHGAQVEDAFRYMAQGHIGKVVVQVLAEEPEAVLKGAKPKLMSAISKTFCAHKS YIIA
 GGLGGFLELAQWLIQRGVQKLVLT SRSGIRTGYQAKQVRRRRQGVQVQVSTSNISSELEGARGLIAEAA
 QLGPVGGVFNLA VVLRDGLLENQTP EFFQDVCKPKYSGTLNLD RVTREACPELDYFVVFSSVSCGRGNAG
 QSNYGFANSAMERIC EKRREHGLPGLAVQWGAIGDVGILVETMSTNDTIVSGTLPQR MASCLEVLDLFLN
 QPHMVLS SFVLAEKAAAYRDRDSQRDLVEAVAHILGIRD LAAVNLDSSLADLGLDSLMSVEVRQTLEREL
 NLVLSVREVRQLTLRKLQELSSKADEASELACPTPKEDGLAQQTQLNLRSLLVNPEGPTLMRLNSVQSS
 ERPLFLVHPIEGSTTVFHSLASRLSIPTYGLQCTRAAPLDSIHS LAAYYIDCIRQVQPEGPYRVAGYSYG
 ACVAFEMCSQLAQQSPAPTHNSLFLFDGSP TYVLA YTQSYRAK LTPGCEAEAE TEAICFFVQQFTDMEH
 NRVLEALLPLKGLEERVA AVDLIIKSHQGLDRQEL SFAARSFYKLRAAEQYTPKAKYHGNVMLLRAKT
 GGAYGEDLGADYNLSQVCDGKVSVHVIEGDHRTLLEGSGL ESIIISIIHSSLAEP RVSVREG

TRRLEQKLI SEEDLAANDILDYKDDDDKV

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

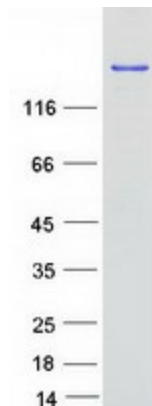
Labeling Method: Labeled with [U- ¹³C₆, ¹⁵N₄]-L-Arginine and [U- ¹³C₆, ¹⁵N₂]-L-Lysine

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:	NP_004095
RefSeq Size:	8481
RefSeq ORF:	7533
Synonyms:	FAS; OA-519; SDR27X1
Locus ID:	2194
UniProt ID:	P49327
Cytogenetics:	17q25.3
Summary:	The enzyme encoded by this gene is a multifunctional protein. Its main function is to catalyze the synthesis of palmitate from acetyl-CoA and malonyl-CoA, in the presence of NADPH, into long-chain saturated fatty acids. In some cancer cell lines, this protein has been found to be fused with estrogen receptor-alpha (ER-alpha), in which the N-terminus of FAS is fused in-frame with the C-terminus of ER-alpha. [provided by RefSeq, Jul 2008]
Protein Families:	Druggable Genome
Protein Pathways:	Fatty acid biosynthesis, Insulin signaling pathway, Metabolic pathways

Product images:



Coomassie blue staining of purified FASN protein (Cat# [TP308644]). The protein was produced from HEK293T cells transfected with FASN cDNA clone (Cat# [RC208644]) using MegaTran 2.0 (Cat# [TT210002]).