

Recombinant Human FASN, GST-tagged

Cat. No. FASN-20H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human FASN(1 a.a. - 439 a.a.), fused with GST-tag at N-terminal, was expressed in wheat germ.
Species	Human
Source	Wheat Germ
Description	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.
Molecular Mass	74.03 kDa
AA Sequence	MSTNDTIVSGTLPQRMASCLEVLDFLNQPHMVLSSFVLAEKAAAYRDRDSQRDLV EAVAHILGIRDLAAVNLDS SLADLGLDSLMSVEVRQTLERELNLVLSVREVRQLTLRK LQELSSKADEASELACPTPKEDGLAQQQTQLNLRSL LVNPEGPTLMRLNSVQSSER PLFLVHPIEGSTTVFHSLASGLSIPTYGLQCTRAAPLDSIHSLAAYYIDCIRQVQ PEGP YRVAGYSYGACVAFEMCSQLQAQQSPAPTHNSLFLFDGSPTYVLAYTQSYRAKLTP GCEAEAETEACFFV QQFTDMEHNRVLEALLPLKGLEERVAAAVDIIKSHQGLDRQ ELSFARSFYKLRAAEQYTPKAKYHGNVMLLR AKTGGAYGEDLGADYNLSQVCD GKVSVHVIEGDHRTLLEGSGLESIIIIHSSLAEPRVSVREG
Applications	ELISA; WB-Re; AP; Array

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Storage Store at -80°C. Aliquot to avoid repeated freezing and thawing.

Storage Buffer 50 mM Tris-HCl, 10 mM reduced Glutathione, pH=8.0 in the elution buffer.

GENE INFORMATION

Gene Name [FASN fatty acid synthase \[Homo sapiens \]](#)

Official Symbol FASN

Synonyms FASN; fatty acid synthase; FAS; SDR27X1; short chain dehydrogenase/reductase family 27X; member 1;

Gene ID [2194](#)

mRNA Refseq [NM_004104](#)

Protein Refseq [NP_004095](#)

MIM [600212](#)

UniProt ID P49327

Chromosome Location 17q25

Pathway AMPK signaling; Activation of gene expression by SREBF (SREBP); Defective AMN causes hereditary megaloblastic anemia 1

Function 3-hydroxyoctanoyl-[acyl-carrier-protein] dehydratase activity; 3-oxoacyl-[acyl-carrier-protein] synthase activity; [acyl-carrier-protein] S-acetyltransferase activity

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