

Recombinant Human FASN, GST-tagged

Cat. No. FASN-21H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human FASN(2378 a.a. - 2477 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	36.74 kDa
AA Sequence	MEHNRVLEALLPLKGLEERVAAAVDLIIKSHQGLDRQELSFAARSFYYKLRAAEQYTP KAKYHGNVMLLRKTGG AYGEDLGADYNLSQVCDGKVSVHVI
Applications	ELISA; WB-Re; AP; Array
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

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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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