

Recombinant Human FASN cell lysate

Cat. No. FASN-597HCL **Lot. No.** (See product label)

SPECIFICATION

Product Overview

Species	Human
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.
Size	100 ul
Storage Buffer	1X Sample Buffer (50 mM Tris-HCl, 2% SDS, 10% glycerol, 300 mM 2-mercaptoethanol, 0.01% Bromophenol blue)
Applications	Western Blot;

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; short chain dehydrogenase/reductase family 27X, member 1; OA-519; MGC14367; MGC15706;

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Gene ID	2194
mRNA Refseq	NM_004104
Protein Refseq	NP_004095
MIM	600212
UniProt ID	P49327
Chromosome Location	17q25
Pathway	ChREBP activates metabolic gene expression, organism-specific biosystem; Fatty Acid Biosynthesis, organism-specific biosystem; Fatty Acyl-CoA Biosynthesis, organism-specific biosystem; Fatty acid biosynthesis, organism-specific biosystem; Fatty acid biosynthesis, conserved biosystem; Fatty acid biosynthesis, elongation, organism-specific biosystem; Fatty acid biosynthesis, elongation, conserved biosystem;
Function	3-hydroxypalmitoyl-[acyl-carrier-protein] dehydratase activity; 3-oxoacyl-[acyl-carrier-protein] reductase (NADPH) activity; 3-oxoacyl-[acyl-carrier-protein] synthase activity; [acyl-carrier-protein] S-acetyltransferase activity; [acyl-carrier-protein] S-malonyltransferase activity; acyl carrier activity; cofactor binding; enoyl-[acyl-carrier-protein] reductase (NADPH, B-specific) activity; fatty acid synthase activity; hydrolase activity, acting on ester bonds; lyase activity; myristoyl-[acyl-carrier-protein] hydrolase activity; nucleotide binding; oleoyl-[acyl-carrier-protein] hydrolase activity; oxidoreductase activity; palmitoyl-[acyl-carrier-protein] hydrolase activity; phosphopantetheine binding; protein binding; transferase activity; zinc ion binding;

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