

Recombinant Human FASN, His-tagged

Cat. No. FASN-28809TH Lot. No. (See product label)

SPECIFICATION

Product Overview	Recombinant fragment, corresponding to amino acids 2181-2502 of Human Fatty Acid Synthase with an N terminal His tag; MWt 37 kDa
Species	Human
Source	E.coli
ProteinLength	2181-2502 a.a.
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.
Conjugation	HIS
Tissue specificity	Ubiquitous. Prominent expression in brain, lung, and liver.
Form	Lyophilised:Reconstitute with 64 µl aqua dest.
Storage buffer	Preservative: None Constituents: 0.5% Trehalose, 6M Urea, 100mM Sodium phosphate, 10mM Sodium chloride, pH 4.5
Storage	Shipped at 4°C. Upon delivery aliquot and store at -80oC. Avoid freeze / thaw cycles.

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Sequences of amino acids

QLTLRKLQELSSKADEASELACPTPKEDGLAQQQTQLNLR SLLVNPEGPTLMRLNS
 VQSSERPLFLVHPIEGSTTVFH SLASRLSIPTYGLQCTRAAPLDSIHSLAAYYIDCIRQ
 V QPEGPYRVAGYSYGACVAFEMCSQLQAQQSPAPTHNSL FLFDGSPTYVLAYTQ
 SYRAKLTPGCEAEAETEAIICFFVQQFTDMEHNRVLEALLPLKGLEERVAAAVDLIIS
 HQGLD RQELSFAARSFYKLRAAEQYTPKAKYHGNVMLLRKT GGAYGEDLGAD
 YNLSQVCDGKVSVHVIEGDHRTLLEGS GLESIISIIHSSLA

Sequence Similarities

Contains 1 acyl carrier domain.

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

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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;

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-;

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