

# Recombinant Human FASN protein, MYC/DDK-tagged

**Cat. No.** FASN-138H    **Lot. No.** (See product label)

## SPECIFICATION

|                         |                                                                                                                                                                                                                                                                                                                                                                                                                           |
|-------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Product Overview</b> | Recombinant Human FASN fused with MYC/DDK tag at C-terminal was expressed in HEK293.                                                                                                                                                                                                                                                                                                                                      |
| <b>Species</b>          | Human                                                                                                                                                                                                                                                                                                                                                                                                                     |
| <b>Source</b>           | HEK293                                                                                                                                                                                                                                                                                                                                                                                                                    |
| <b>Description</b>      | 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. |
| <b>Form</b>             | 25 mM Tris.HCl, pH 7.3, 100 mM glycine, 10% glycerol.                                                                                                                                                                                                                                                                                                                                                                     |
| <b>Molecular Mass</b>   | 273.2 kDa                                                                                                                                                                                                                                                                                                                                                                                                                 |
| <b>Purity</b>           | > 80% as determined by SDS-PAGE and Coomassie blue staining                                                                                                                                                                                                                                                                                                                                                               |
| <b>Concentration</b>    | >50 ug/mL as determined by microplate BCA method                                                                                                                                                                                                                                                                                                                                                                          |

## GENE INFORMATION

|                  |                                           |
|------------------|-------------------------------------------|
| <b>Gene Name</b> | FASN fatty acid synthase [ Homo sapiens ] |
|------------------|-------------------------------------------|

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|                            |                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
|----------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Official Symbol</b>     | <a href="#">FASN</a>                                                                                                                                                                                                                                                                                                                                                                                                                              |
| <b>Synonyms</b>            | 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;                                                                                                                                                                                                                                                          |
| <b>Gene ID</b>             | <a href="#">2194</a>                                                                                                                                                                                                                                                                                                                                                                                                                              |
| <b>mRNA Refseq</b>         | <a href="#">NM_004104</a>                                                                                                                                                                                                                                                                                                                                                                                                                         |
| <b>Protein Refseq</b>      | <a href="#">NP_004095</a>                                                                                                                                                                                                                                                                                                                                                                                                                         |
| <b>MIM</b>                 | <a href="#">600212</a>                                                                                                                                                                                                                                                                                                                                                                                                                            |
| <b>UniProt ID</b>          | <a href="#">P49327</a>                                                                                                                                                                                                                                                                                                                                                                                                                            |
| <b>Chromosome Location</b> | 17q25                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| <b>Pathway</b>             | 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;                          |
| <b>Function</b>            | 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 |

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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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