

Recombinant Human FASN protein, MYC/DDK-tagged

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

SPECIFICATION

Product Overview Recombinant Human FASN fused with MYC/DDK tag at C-terminal was expressed in HEK293.

Species Human

Source HEK293

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.

Form 25 mM Tris.HCl, pH 7.3, 100 mM glycine, 10% glycerol.

Molecular Mass 273.2 kDa

Purity > 80% as determined by SDS-PAGE and Coomassie blue staining

Concentration >50 ug/mL as determined by microplate BCA method

GENE INFORMATION

Gene Name FASN fatty acid synthase [Homo sapiens]

 Tel: 1-631-559-9269 1-516-512-3133

 Email: info@creative-biomart.com  Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA

| | |
|----------------------------|---|
| 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; |
| 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 |

 Tel: 1-631-559-9269 1-516-512-3133

 Email: info@creative-biomart.com  Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA



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;

 Tel: 1-631-559-9269 1-516-512-3133

 Email: info@creative-biomart.com  Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA