

Recombinant Mouse Nfatc4 Protein, Myc/DDK-tagged

Cat. No. Nfatc4-4390M **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Purified recombinant protein of mouse full-length nuclear factor of activated T cells, cytoplasmic, calcineurin dependent 4 (Nfatc4), with C-terminal MYC/DDK tag, expressed in HEK293T cells.
Species	Mouse
Source	HEK293
Description	Ca ²⁺ -regulated transcription factor that is involved in several processes, including the development and function of the immune, cardiovascular, musculoskeletal, and nervous systems. Involved in T-cell activation, stimulating the transcription of cytokine genes, including that of IL2 and IL4 Along with NFATC3, involved in embryonic heart development. Involved in mitochondrial energy metabolism required for cardiac morphogenesis and function Transactivates many genes involved in heart physiology. Along with GATA4, binds to and activates NPPB/BNP promoter. Activates NPPA/ANP/ANF and MYH7/beta-MHC transcription. Binds to and transactivates AGTR2 gene promoter Involved in the regulation of adult hippocampal neurogenesis. Involved in BDNF-driven pro-survival signaling in hippocampal adult-born neurons. Involved in the formation of long-term spatial memory and long-term potentiation In cochlear nucleus neurons, may play a role in deafferentation-induced apoptosis during a developmental critical period when auditory neurons depend on afferent input for survival Binds to and activates the BACE1/Beta-secretase 1 promoter, hence may regulate the proteolytic processing of the amyloid precursor protein (APP). Plays a role in adipocyte differentiation. May be involved in myoblast differentiation into

 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

myotubes. Binds the consensus DNA sequence 5'-GGAAAAT-3' (Probable). In the presence of CREBBP, activates TNF transcription. Binds to PPARG gene promoter and regulates its activity. Binds to PPARG and REG3G gene promoters

Molecular Mass 95.8 kDa

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

Stability Stable for 12 months from the date of receipt of the product under proper storage and handling conditions. Avoid repeated freeze-thaw cycles.

Storage Store at -80 centigrade after receiving vials.

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

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

GENE INFORMATION

Gene Name Nfatc4 nuclear factor of activated T cells, cytoplasmic, calcineurin dependent 4 [Mus musculus (house mouse)]

Official Symbol Nfatc4

Synonyms NFATC4; nuclear factor of activated T cells, cytoplasmic, calcineurin dependent 4; nuclear factor of activated T-cells, cytoplasmic 4; NF-AT3; NF-ATc4; T-cell transcription factor NFAT3; transcription complex subunit NF-ATc4; nuclear factor of activated T-cells, cytoplasmic, calcineurin-dependent 4; Nfat3; AW107667; AW546455; 3110041H08Rik

Gene ID 73181

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mRNA Refseq	NM_023699
Protein Refseq	NP_076188
UniProt ID	Q8K120

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