

Recombinant Human NFATC1, GST-tagged

Cat. No. NFATC1-7051H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant full-length human NFATC1 was expressed by baculovirus in Sf9 insect cells using an N-terminal GST tag.
Species	Human
Source	Sf9 Cells
ProteinLength	Full length
Description	NFATC1 is a member of the NFAT family of proteins which are Ca ²⁺ /calcineurin-responsive transcription factors primarily recognized for their central roles in T lymphocyte activation and cardiac valve development. NFAT consists of at least two components: a preexisting cytosolic component that translocates to the nucleus upon T-cell receptor (TCR) stimulation, and an inducible nuclear component. Proteins belonging to the NFAT family of transcription factors play a central role in inducible gene transcription during immune response. The product of NFATC1 is an inducible nuclear component and functions as a major molecular target for the immunosuppressive drugs such as cyclosporin A.
Form	Recombinant protein stored in 50mM Tris-HCl, pH 7.5, 150mM NaCl, 10mM glutathione, 0.1mM EDTA, 0.25mM DTT, 0.1mM PMSF, 25% glycerol.
Molecular Mass	~125 kDa
Purity	>85%

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Applications	Western Blot
Storage	Store at –70°C. For optimal storage, aliquot target into smaller quantities after centrifugation and store at recommended temperature. Avoid freeze/thaw cycles.
Concentration	0.2 µg/µl
GENE INFORMATION	
Gene Name	NFATC1 nuclear factor of activated T-cells, cytoplasmic, calcineurin-dependent 1 [Homo sapiens]
Official Symbol	NFATC1
Synonyms	NFATC1; nuclear factor of activated T-cells, cytoplasmic, calcineurin-dependent 1; nuclear factor of activated T-cells, cytoplasmic 1; NF ATC; NFAT2; NFATc; NF-ATc1; NFAT transcription complex cytosolic component; NF-ATC; MGC138448;
Gene ID	4772
mRNA Refseq	NM_006162
Protein Refseq	NP_006153
MIM	600489
UniProt ID	O95644
Chromosome Location	18q23

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Pathway	Axon guidance, organism-specific biosystem; Axon guidance, conserved biosystem; B Cell Receptor Signaling Pathway, organism-specific biosystem; B cell receptor signaling pathway, organism-specific biosystem; B cell receptor signaling pathway, conserved biosystem; BCR signaling pathway, organism-specific biosystem; Calcineurin-regulated NFAT-dependent transcription in lymphocytes, organism-specific biosystem;
Function	DNA binding; FK506 binding; RNA polymerase II distal enhancer sequence-specific DNA binding; RNA polymerase II transcription factor binding; mitogen-activated protein kinase p38 binding; protein binding; sequence-specific DNA binding transcription factor activity; sequence-specific distal enhancer binding RNA polymerase II transcription factor activity; transcription regulatory region DNA binding;