

Recombinant Human Nuclear Factor Of Activated T-cells, Cytoplasmic, Calcineurin-Dependent 1, His-tagged

Cat. No. NFATC1-1274H Lot. No. (See product label)

SPECIFICATION

Product Overview	Recombinant humanNFATC1 contains amino acids 2-298 and N-terminal polyhistidine tag.
Species	Human
Source	E.coli
ProteinLength	2-298 a.a.
Description	NFATC1 is a member of the NFATfamily of proteins which are Ca ²⁺ /calcineurin-responsive transcription factors primarily recognized for their central roles in Tlymphocyte activation and cardiac valve development. NFAT consists of atleast two components: a preexisting cytosolic component that translocates tothe nucleus upon T-cell receptor (TCR) stimulation, and an inducible nuclearcomponent.
Form	Carrier-free liquid.
Molecular Weight	35 kDa(migrates at ~ 48 kDa on SDS-PAGE gel)
Purity	95% asdetermined by SDS-PAGE analysis
Biological Activity	Recombinanthuman NFATC1 is phosphorylatable in vitro,using recombinant GSK3 and PKA. Optimization of the cell stimulationprotocol, cell lysis procedure, and reaction conditions may be required foreach specific application.

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storage	Store at 2-4°C for short term storage. Stable for 1 year in working aliquots at -20°C. Avoid repeated freeze-thaw cycles.
Official Symbol	NFATC1
Pathways	Axon guidance; B cell receptor signaling pathway; Natural killer cell mediated cytotoxicity; T cell receptor signaling pathway; VEGF signaling pathway; Wnt signaling pathway

GENE INFORMATION

Gene Name	NFATC1 nuclear factor of activated T-cells, cytoplasmic, calcineurin-dependent 1 [Homo sapiens]
Synonyms	NFATC1; nuclear factor of activated T-cells, cytoplasmic, calcineurin-dependent 1; NFAT2; NFATc; NF-ATC; MGC138448; NFAT transcription complex cytosolic component; Nuclear factor of activated T-cells, cytoplasmic 1; NF-ATc1; NFATC; NFAT transcription complex cytosolic component
Gene ID	4772
mRNA Refseq	NM_006162
Protein Refseq	NP_006153
MIM	600489
UniProt ID	O95644
Chromosome Location	18q23

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Function

FK506 binding; promoter binding; protein binding; transcription activator activity; transcription factor activity

**PDB rendering
based on 1a66.**

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