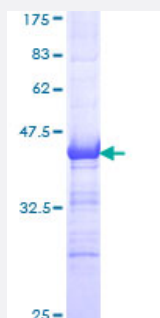


NFATC1 (Human) Recombinant Protein (Q01)

Catalog # H00004772-Q01

Size 25 ug, 10 ug

Applications



Specification

Product Description	Human NFATC1 partial ORF (NP_006153, 701 a.a. - 810 a.a.) recombinant protein with GST-tag at N-terminal.
Sequence	IKTEPTDDYEPAPTCGPVSQGLSPLRPYYSQQLAMPDPSSCLVAGFPFPCPQRSTLMPAAPGV SPKLHDLSPAAYTKGVASPGHCHLGLPQPAGEAPAVQDVPRPVATH
Host	Wheat Germ (in vitro)
Theoretical MW (kDa)	37.84
Interspecies Antigen Sequence	Mouse (75); Rat (73)
Preparation Method	in vitro wheat germ expression system
Purification	Glutathione Sepharose 4 Fast Flow
Quality Control Testing	12.5% SDS-PAGE Stained with Coomassie Blue.
Storage Buffer	50 mM Tris-HCl, 10 mM reduced Glutathione, pH=8.0 in the elution buffer.
Storage Instruction	Store at -80°C. Aliquot to avoid repeated freezing and thawing.
Note	Best use within three months from the date of receipt of this protein.

Applications

- Enzyme-linked Immunoabsorbent Assay
- Western Blot (Recombinant protein)
- Antibody Production
- Protein Array

Gene Info — NFATC1

Entrez GeneID [4772](#)

GeneBank Accession# [NM_006162](#)

Protein Accession# [NP_006153](#)

Gene Name NFATC1

Gene Alias MGC138448, NF-ATC, NFAT2, NFATc

Gene Description nuclear factor of activated T-cells, cytoplasmic, calcineurin-dependent 1

Omim ID [600489](#)

Gene Ontology [Hyperlink](#)

Gene Summary

The product of this gene is a component of the nuclear factor of activated T cells DNA-binding transcription complex. This complex 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 this family of transcription factors play a central role in inducible gene transcription during immune response. The product of this gene is an inducible nuclear component. It functions as a major molecular target for the immunosuppressive drugs such as cyclosporin A. Five transcript variants encoding distinct isoforms have been identified for this gene. Different isoforms of this protein may regulate inducible expression of different cytokine genes. [provided by RefSeq]

Other Designations

NFAT transcription complex cytosolic component|nuclear factor of activated T-cells, cytosolic component 1

Pathway

- [Axon guidance](#)
- [B cell receptor signaling pathway](#)
- [Natural killer cell mediated cytotoxicity](#)
- [T cell receptor signaling pathway](#)
- [VEGF signaling pathway](#)
- [Wnt signaling pathway](#)

Disease

- [Cardiovascular Diseases](#)
- [Diabetes Mellitus](#)
- [Edema](#)
- [Genetic Predisposition to Disease](#)
- [Heart Defects](#)
- [Heart Septal Defects](#)
- [Kidney Failure](#)
- [Pulmonary Valve Stenosis](#)
- [Tricuspid Atresia](#)