

# Recombinant human NFATC2 protein

Catalog Number: ATGP3772

## PRODUCT INFORMATION

---

### Expression system

Baculovirus

### Domain

396-678aa

### UniProt No.

Q13469

### NCBI Accession No.

NP\_775114

### Alternative Names

Nuclear factor of activated T-cells cytoplasmic 2 isoform C, NFATC2, NFAT1, NFATP

## PRODUCT SPECIFICATION

---

### Molecular Weight

33.1 kDa (290aa)

### Concentration

0.25mg/ml (determined by absorbance at 280nm)

### Formulation

Liquid in. Phosphate-Buffered Saline (pH 7.4) containing 40% glycerol, 1mM DTT

### Purity

> 90% by SDS-PAGE

### Endotoxin level

< 1 EU per 1ug of protein (determined by LAL method)

### Tag

His-Tag

### Application

SDS-PAGE

### Storage Condition

Can be stored at +2C to +8C for 1 week. For long term storage, aliquot and store at -20C to -80C. Avoid repeated freezing and thawing cycles.

## BACKGROUND

---

### Description

NFATC2, also known as nuclear factor of activated T-cells cytoplasmic 2 isoform C, is a member of the nuclear factor of activated T cells family. This protein plays a vital role in the course of T helper cell activation, differentiation, and effector function. Although KO of an individual NFAT isoform in T cells leads to rather mild effects, T cells deficient for NFATC1 and 2 completely fail to produce T helper cell effector cytokines, such as the

# Recombinant human NFATC2 protein

Catalog Number: ATGP3772

interleukins IL-2 and IL-4 or interferon gamma. Also, it is highly phosphorylated and retained in the cytoplasm. Following T cell receptor (TCR) stimulation, dephosphorylation by calcium-activated calcineurin induces a conformational change of NFATC2 that exposes one or more nuclear localization sequences. Recombinant human NFATC2, fused to His-tag at C-terminus, was expressed in insect cell and purified by using conventional chromatography techniques.

## Amino acid Sequence

PLEWPLSSQS GSYELRIEVQ PKPHHRAHYE TEGSRGAVKA PTGGHPVVQL HGYMENKPLG LQIFIGTADE RILKPHAFYQ  
VHRITGKTVT TTSYEKIVGN TKVLEIPLEP KNNMRATIDC AGILKLRNAD IELRKGETDI GRKNTRVRLV FRVHIPESG  
RIVSLQTASN PIECSQSAH ELP MVERQDT DSCLVYGGQQ MILTGQNFTS ESKVVFTEKT TDGQQIWEME ATVDKDKSQP  
NMLFVEIPEY RNKHIRT PVK VNFYVINGKR KRSQPQHFTY HPV<HHHHHH>

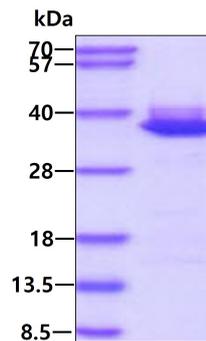
## General References

Gabriel CH., et al, (2016) J. Biol. Chem. 291:24172-24187.

Ho S., et al, (1994) Adv. Exp. Med. Biol. 365:167-173.

## DATA

### SDS-PAGE



3 $\mu$ g by SDS-PAGE under reducing condition and visualized by coomassie blue stain.