

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

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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

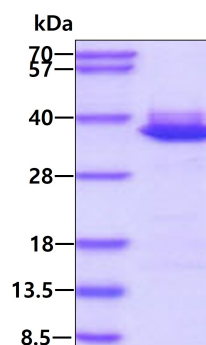
PLEWPLSSQS GSYELRIEVQ PKPHHRAHYE TEGSRGAVKA PTGGHPVVQL HGYMENKPLG LQIFIGTADE RILKPHAFYQ
VHRITGKTVT TTSYEKIVGN TKVLEIPLEP KNNMRATIDC AGILKLRNAD IELRKGETDI GRKNTRVRLV FRVHIPESG
RIVSLQTASN PIECSQRSAH ELP MVERQDT DSCLVYGGQQ MILTGQNFTS ESKVVFTEKT TDGQQIWEME ATVDKDKSQP
NMLFVEIPEY RNKHIRTPVK VNFYVINGKR KRSQPQHFTY 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



3ug by SDS-PAGE under reducing condition and visualized by coomassie blue stain.