
Product Data Sheet

Product Name: NFATC2 Human

Cat. No.: GP24032

Batch No.: 1

Product Data

Purity >98% Source Sf9,Baculovirus cells.

Physical Appearance solid Shipping Condition Shipped with Ice Packs.

Synonyms Nuclear Factor Of Activated T Cells 2; Nuclear Factor Of Activated T-Cells; Cytoplasmic; Calcineurin-Dependent 2; Nuclear Factor Of Activated T-Cells 2; NFAT Pre-Existing Subunit; NF-ATc2; NFAT1; NFATP; Nuclear Factor Of Activated T-Cells; Preexisting Component; Nuclear Factor Of Activated T-Cells; Cytoplasmic 2; NFAT Transcription Complex; Preexisting Component; Preexisting Nuclear Factor Of Activated T-Cells 2; T Cell Transcription Factor NFAT1; T-Cell Transcription Factor NFAT1; NF-ATp; NFATc2.

Amino Acid Sequence
 MPLEWPLSSQ SGSYELRIEV QPKPHHRAHY ETEGSRGAVK APTGGHPVVQ
 LHGYMENKPL GLQIFIGTAD ERILKPHAFY QVHRITGKTV TTTSYEKIVG
 NTKVLEIPLE PKNNMRATID CAGILKLRNA DIELRKGETD IGRKNTRVRL
 VFRVHIPESS GRIVSLQTAS NPIECSQRS A HELPMVERQD TDSCLVYGGQ
 QMILTGQNFT SESKVVFTEK TTDGQQIWEM EATVDKDKSQ PNMLFVEIPE
 YRNKHIRTPV KVN FYVINGK RKRSQPQHFT YHPVHHHHHH

Formulation NFATC2 protein solution (0.25mg/ml) contains Phosphate Buffered Saline (pH 7.4) 40% glycerol and 1mM DTT.

Introduction

NFATC2, also known as nuclear factor of activated T-cells 2, belongs to the nuclear factor of activated T cells family. NFATC2 takes a significant part in the course of T helper cell differentiation, activation, and effector function. Even though KO of an individual NFAT isoform in T cells directs to rather minor effects, T cells lacking for NFATC1 and 2 totally fail to produce T helper cell effector cytokines, for instance the interleukins IL-4 and IL-2. Moreover, NFATC2 is highly phosphorylated and kept in the cytoplasm. Next T cell receptor stimulation, dephosphorylation via calcium-activated

Caution: Product has not been fully validated for medical applications. For research use only.

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calcineurin induces a conformational modification of NFATC2 which reveals a few nuclear localization sequences.

Stability

Store at 4°C if entire vial will be used within 2-4 weeks. Store, frozen at -20°C for longer periods of time. For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA). Avoid multiple freeze-thaw cycles.

Background

NFATC2 produced in Sf9 Baculovirus cells is a single, glycosylated polypeptide chain containing 290 amino acids (396-678a.a.) and having a molecular mass of 33.1kDa. (Molecular size on SDS-PAGE will appear at approximately 28-40kDa). NFATC2 is expressed with a 7 amino acid His tag at C-Terminus and purified by proprietary chromatographic techniques.

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