

Recombinant human STAT3 protein

Catalog Number: ATGP3823

PRODUCT INFORMATION

Expression system

Baculovirus

Domain

1-770aa

UniProt No.

P40763

NCBI Accession No.

NP_644805.1

Alternative Names

Signal transducer and activator of transcription 3 isoform 1, STAT3, ADMIO, ADMIO1, APRF, HIES

PRODUCT SPECIFICATION

Molecular Weight

88.8 kDa (776aa)

Concentration

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

Formulation

Liquid in. Phosphate-Buffered Saline (pH 7.4) containing 30% 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

STAT3, also known as signal transducer and activator of transcription 3 isoform 1, is a member of the STAT protein family. It is a transcription factor activated in response to cytokine, growth factor, or hormone receptor signaling. Once this protein is activated, recruits coactivators, such as NCOA1 or MED1, to the promoter region of the target gene and it mediates cellular responses to activated FGFR1, FGFR2, FGFR3 and FGFR4. It also acts

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as a regulator of inflammatory response by regulating differentiation of naive CD4+ T-cells into T-helper Th17 or regulatory T-cells. Recombinant human STAT3 protein, fused to His-tag at C-terminus, was expressed in insect cell and purified by using conventional chromatography techniques.

Amino acid Sequence

MAQWNQLQQL DTRYLEQLHQ LYSDSFPMEI RQFLAPWIES QDWAYAASKE SHATLVFHNL LGEIDQQYSR FLQESNVLYQ
HNLRRIKQFL QSRYLEKPME IARIVARCLW EESRLLQTAA TAAQQGGQAN HPTAAVVTEK QQMLEQHLQD VRKRVQDLEQ
KMKVVENLQD DFDNFYKTLK SQGDMQDLNG NNQSVTRQKM QQLEQMLTAL DQMRRSIVSE LAGLLSAMEY
VQKTLTDEEL ADWKRRQQA CIGGPPNICL DRLENWITSL AESQLQTRQQ IKKLEELQOK VSYKGDPIVQ HRPMLLEERIV
ELFRNLMKSA FVVERQPCMP MHPDRPLVIK TGVQFTTKVR LLVKFPELNY QLKIKVCIDK DSGDVAALRG SRKFNILGTN
TKVMNMEESN NGSLSAEFKH LTLREQRCGN GGRANCDASL IVTEELHLIT FETEVYHQGL KIDLETHSLP VVVISNICQM
PNAWASILWY NMLTNNPKNV NFFTTPPIGT WDQVAEVLWS QFSSTTKRGL SIEQLTTLAE KLLGPGVNYS GCQITWAKFC
KENMAGKGF5 FWVWLDNIID LVKKYILALW NEGYIMGFIS KERERAILST KPPGTFLLRF SESSKEGGVT FTWVEKDISG
KTQIQSVEPY TKQQLNMSF AEIIMGYKIM DATNILVSPL VYLYPDIPKE EAFGKYCRPE SQEHPEADPG SAAPYLKTKF
ICVTPTTCSN TIDLPMSPRT LDSLMQFGNN GEGAEPSAGG QFESLTFDME LTSECATSPM <HHHHHH>

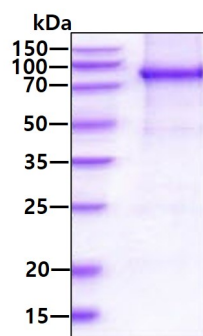
General References

Chakraborty D., et al, (2017) Nat Commun. 8:1130.

Han S., et al, (2018) Am J Cancer Res. 8:489-501.

DATA

SDS-PAGE



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