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Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

SZABO-SCANDIC HandelsgmbH

Quellenstraße 110, A-1100 Wien

T. +43(0)1 489 3961-0

F. +43(0)1 489 3961-7

mail@szabo-scandic.com

www.szabo-scandic.com

[linkedin.com/company/szaboscandic](https://www.linkedin.com/company/szaboscandic)

Datasheet

STAT3 (Human) Recombinant Protein (P01)

Catalog Number: H00006774-P01

Regulation Status: For research use only (RUO)

Product Description: Human STAT3 full-length ORF (AAH00627, 1 a.a. - 769 a.a.) recombinant protein with GST-tag at N-terminal.

Sequence:

MAQWNQLQQLDTRYLEQLHQLYSDSFPMELRQFLAP
WIESQDWAYAASKESHATLVFHNLLGEIDQQYSRFLQ
ESNVLYQHNLRRRIKQFLQSRYLEKPMIARIVARCLWE
ESRLLQTAATAAQGGQANHPTAAVVTEKQQMLEQH
LQDVRKRVDLEQKMKVVENLQDDDFNYKTLKSQG
DMQDLNGNNSVTRQKMQQLEQMLTALDQMRRSIVS
ELAGLLSAMEYVQKTLTDEELADWKRRQIACIGGPP
NICLDRLNWTSLAESLQTRQKIKLEELQKQVSYK
GDPIVQHRPMEERIVELFRNLMKSAFVVERQPCMPM
HPDRPLVIKTGVQFTTKVRLLVKFPENYQLKIKVICDK
DSGDVAALRGRKFNILGTNTKVMNMEESNNGSLSAE
FKHLTLREQRCGNGGRANCDASLIVTEELHLITFETEV
YHQGLKIDLETHSLPVVVISNICQMPNAWASILWYNML
TNNPKNVNFFTKPPIGTWDQVAEVLVSWQFSSTTKRGL
SIEQLTTLAEKLLGPGVNYSGCQITWAKFCKENMAGK
GFSFWVWLDNIIDLVKKYILALWNEGYIMGFISKERERA
ILSTKPPGTFLRFSESSKEGGVTFTWVEKDISGKTQIQ
SVEPYTKQQLNNSFAEIIIMGYKIMDATNILVSPVLYLY
PDIPKEEAFGKYCRPESQEHPADPGAAPYLKTKFICV
TPTTCSNTIDLPMSPRTLDSLMLQFGNGGEGAEPSSAGG
QFESLTFDMELTSECATSPM

Host: Wheat Germ (in vitro)

Theoretical MW (kDa): 110.11

Applications: AP, Array, ELISA, WB-Re
(See our web site product page for detailed applications information)

Protocols: See our web site at
<http://www.abnova.com/support/protocols.asp> or product page for detailed protocols

Preparation Method: [in vitro wheat germ expression system](#)

Purification: Glutathione Sepharose 4 Fast Flow

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.

Entrez GeneID: 6774

Gene Symbol: STAT3

Gene Alias: APRF, FLJ20882, HIES, MGC16063

Gene Summary: The protein encoded by this gene is a member of the STAT protein family. In response to cytokines and growth factors, STAT family members are phosphorylated by the receptor associated kinases, and then form homo- or heterodimers that translocate to the cell nucleus where they act as transcription activators. This protein is activated through phosphorylation in response to various cytokines and growth factors including IFNs, EGF, IL5, IL6, HGF, LIF and BMP2. This protein mediates the expression of a variety of genes in response to cell stimuli, and thus plays a key role in many cellular processes such as cell growth and apoptosis. The small GTPase Rac1 has been shown to bind and regulate the activity of this protein. PIAS3 protein is a specific inhibitor of this protein. Three alternatively spliced transcript variants encoding distinct isoforms have been described. [provided by RefSeq]

References:

1. Discovery of a small-molecule inhibitor of STAT3 by ligand-based pharmacophore screening. Leung KH, Liu LJ, Lin S, Lu L, Zhong HJ, Susanti D, Rao W, Wang M, Che WI, Chan DS, Leung CH, Chan PW, Ma DL *Methods*. 2014 Aug 24. pii: S1046-2023(14)00257-6. doi: 10.1016/j.ymeth.2014.07.010.
2. KIF5B-RET fusion kinase promotes cell growth by multilevel activation of STAT3 in lung cancer. Qian Y, Chai S, Liang Z, Wang Y, Zhou Y, Xu X, Zhang C, Zhang M, Si J, Huang F, Huang Z, Hong W, Wang K *Mol Cancer*. 2014 Jul 21;13:176. doi: 10.1186/1476-4598-13-176.