

Recombinant Human STAT3, His-tagged

Cat. No. STAT3-2176H Lot. No. (See product label)

SPECIFICATION

Product Overview	Recombinant Human STAT3(Met1-Asn175), transcript variant 3, fused with C-terminal 6His tag, was expressed in E. coli.
Species	Human
Source	E.coli
ProteinLength	1-175 a.a.
Description	Signal Transducer and Activator of Transcription 3 (STAT3) belongs to the transcription factor STAT family. STAT3 contains one SH2 domain and is a transcription factor expressed in most cell types. STAT3 is activated by multiple cytokines and growth factors including: IFN- α , IL-10, IL-6, IL-11, IL-12, IL-2, EGF etc. STAT3 functions as signal transducer and transcription activator that mediates cellular responses to interleukins, KITLG/SCF and other growth factors. In addition, STAT3 may also mediate cellular responses to activated FGFR1, FGFR2, FGFR3 and FGFR4.
Form	Lyophilized from a 0.2 μ m filtered solution of PBS, pH 7.4
AA Sequence	MAQWNQLQQLDTRYLEQLHQLYSDSFPMELRQFLAPWIESQDWAYAASKESHATL VFHNLLGEID QQYSRFLQESNVLYQHNLRRIKQFLQSRYLEKPMIARIVARCLWEE SRLQLTAATAAQGGQAN HPTAAVVTEKQQMLEQHLQDVRKRVQDLEQKMKVVE NLQDDDFDNLEHHHHHH

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Endotoxin	Less than 0.1 ng/g (1 IEU/g).
Purity	Greater than 95% as determined by SEC-HPLC and reducing SDS-PAGE.
Usage	FOR RESEARCH USE ONLY
Storage	Lyophilized protein should be stored at < -20 centigrade, though stable at room temperature for 3 weeks. Reconstituted protein solution can be stored at 4-7 centigrade for 2-7 days. Aliquots of reconstituted samples are stable at < -20 centigrade for 3 months.
Reconstitution	Always centrifuge tubes before opening. Do not mix by vortex or pipetting. It is not recommended to reconstitute to a concentration less than 100 µg/ml. Dissolve the lyophilized protein in 1X PBS. Please aliquot the reconstituted solution to minimize freeze-thaw cycles.

GENE INFORMATION

Gene Name	STAT3 signal transducer and activator of transcription 3 (acute-phase response factor) [Homo sapiens]
Official Symbol	STAT3
Synonyms	APRF; HIES; ADMIO; signal transducer and activator of transcription 3; DNA-binding protein APRF; acute-phase response factor
Gene ID	6774
mRNA Refseq	NM_213662
Protein Refseq	NP_998827

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MIM	102582
UniProt ID	P40763
Chromosome Location	17q21.31
Pathway	AGE/RAGE pathway, organism-specific biosystem; Acute myeloid leukemia, conserved biosystem; Cellular responses to stress, organism-specific biosystem
Function	CCR5 chemokine receptor binding; DNA binding; protein binding

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