

# Recombinant Human STAT3, His-tagged

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

## SPECIFICATION

|                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
|-------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Product Overview</b> | Recombinant Human STAT3(Met1-Asn175), transcript variant 3, fused with C-terminal 6His tag, was expressed in E. coli.                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| <b>Species</b>          | Human                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| <b>Source</b>           | E.coli                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| <b>ProteinLength</b>    | 1-175 a.a.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| <b>Description</b>      | 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- $\alpha$ , 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. |
| <b>Form</b>             | Lyophilized from a 0.2 $\mu$ m filtered solution of PBS, pH 7.4                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| <b>AA Sequence</b>      | MAQWNQLQQLDTRYLEQLHQLYSDSFPMELRQFLAPWIESQDWAYAASKESHATL<br>VFHNLLGEID QQYSRFLQESNVLYQHNLRRRIKQFLQSRYLEKPMEIARIVARCLWEE<br>SRLLQTAATAAQGGQAN HPTAAVVTEKQQMLEQHLQDVRKRVQDLEQKMKVVE<br>NLQDDDFDNLEHHHHHHH                                                                                                                                                                                                                                                                                                                                                                                           |

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|-----------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Endotoxin</b>      | Less than 0.1 ng/g (1 IEU/g).                                                                                                                                                                                                                                                  |
| <b>Purity</b>         | Greater than 95% as determined by SEC-HPLC and reducing SDS-PAGE.                                                                                                                                                                                                              |
| <b>Usage</b>          | FOR RESEARCH USE ONLY                                                                                                                                                                                                                                                          |
| <b>Storage</b>        | 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.           |
| <b>Reconstitution</b> | 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

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

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

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