

## Recombinant Human STAT1 Protein

Catalog #	Source	Reactivity	Applications
CRP2342	E. coli	Human	E, WB, SDS-PAGE, MS

**Description** Recombinant Human STAT1 Protein is produced by our E. coli expression system and the target gene encoding Met1-Val712 is expressed.

**Form** Lyophilized from a 0.2 μM filtered solution of 20mM PB, 150mM NaCl, pH 7.4.

**Gene Symbol** STAT1

**Alternative Names** Signal transducer and activator of transcription 1-alpha/beta; Transcription factor ISGF-3 components p91/p84

**Entrez Gene** 6772 (Human)

**SwissProt** P42224 (Human)

**Purity** Greater than 95% as determined by reducing SDS-PAGE.

**Chemical Structure** GSHMSQWYEL QQLDSKFLEQ VHQLYDDSP MEIRQYLAQW LEKQDWEHAA  
 NDVSFATIRF HDLLSQLDDQ YSRFSLENNF LLQHNIRKSK RNLQDNFQED PIQMSMIIYS  
 CLKEERKILE NAQRFNQAQS GNIQSTVMLD KQKELDSKVR NVKDKVMCIE HEIKSLEDLQ  
 DEYDFKCKTL QNREHETNGV AKSDQKQEQL LLKKMYLMLD NKRKEVVHKI IELLNVTELT  
 QNALINDELV EWKRRQQSAC IGGPPNACLD QLQNWFTIVA ESLQQVRQQL KKLEELEQKY  
 TYEHDPITKN KQVLWDRFVS LFQQLIQSSF VVERQPCMPPT HPQRPLVLKT GVQFTVKLRL  
 LVKLQELNYN LKVKVLFDKD VNERNTVKGF RKFNILGTHT KVMNMEESTN GSLAAEFRHL  
 QLKEQKNAGT RTNEGPLIVT EELHLSFET QLCQPGLVID LETTSLPVVV ISNVSQLPSPG  
 WASILWYNML VAEPNLSFF LTPPCARWAQ LSEVLSWQFS SVTKRGLNVD QLNMLGEKLL  
 GPNASPDGLI PWTRFCKENI NDKNFPFWLW IESILELIKK HLLPLWNDGC IMGFISKERE  
 RALLKDQQPG TFLLRFSESS REGAITFTWV ERSQNGGEPD FHAVEPYTKK ELSAVTFPDI  
 IRNYKVMAAE NIPENPLKYL YPNIDKDHAH GKYYSRPKEA PEPMELDGPK GTGYIKTELI

**Application key:** E- ELISA, WB- Western blot, IH- Immunohistochemistry, IF- Immunofluorescence, FC- Flow cytometry, IC- Immunocytochemistry, IP- Immunoprecipitation, ChIP- Chromatin Immunoprecipitation, EMSA- Electrophoretic Mobility Shift Assay, BL- Blocking, SE- Sandwich ELISA, CBE- Cell-based ELISA, RNAi- RNA interference

**Species reactivity key:** H- Human, M- Mouse, R- Rat, B- Bovine, C- Chicken, D- Dog, G- Goat, Mk- Monkey, P- Pig, Rb- Rabbit, S- Sheep, Z- Zebrafish

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# Product Data Sheet

SVSEV

## Quality Control

Endotoxin: Less than 0.1 ng/ $\mu$ g (1 IEU/ $\mu$ g) as determined by LAL test.

## Directions for Use

Always centrifuge tubes before opening. Do not mix by vortex or pipetting. It is not recommended to reconstitute to a concentration less than 100  $\mu$ g/ml. Dissolve the lyophilized protein in 1X PBS. Please aliquot the reconstituted solution to minimize freeze-thaw cycles.

## Storage/Stability

Lyophilized protein should be stored at  $-20^{\circ}\text{C}$ , though stable at room temperature for 3 weeks. Reconstituted protein solution can be stored at  $2-8^{\circ}\text{C}$  for 2-7 days.

Aliquots of reconstituted samples are stable at  $-20^{\circ}\text{C}$  for 3 months.

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