

## 32-8141: Recombinant Human Signal Transducer and Activator of Transcription 1/STAT1

**Gene :** STAT1  
**Gene ID :** 6772  
**Uniprot ID :** P42224

### Description

Source: E. coli.  
MW :83.3kD.

Recombinant Human STAT1 is produced by our E.coli expression system and the target gene encoding Met1-Val712 is expressed. Signal Transducer and Activator of Transcription 1-Alpha/Beta (STAT1) contains one SH2 domain and belongs to the transcription factor STAT family. When tyrosine- and serine-phosphorylated, STAT1 can form a homodimer termed IFN-gamma-activated factor (GAF), migrate into the nucleus and bind to the IFN gamma activated sequence (GAS) to drive the expression of the target genes, inducing a cellular antiviral state. STAT1 functions as signal transducer and transcription activator that mediates cellular responses to interferons. Defects in STAT1 are the cause of STAT1 deficiency complete and familial candidiasis type 7.

### Product Info

**Amount :** 10 µg / 50 µg  
**Content :** Lyophilized from a 0.2 µm filtered solution of 20mM PB,150mM NaCl,pH7.4.  
**Storage condition :** Lyophilized protein should be stored at -20°C, though stable at room temperature for 3 weeks. Reconstituted protein solution can be stored at 4-7°C for 2-7 days. Aliquots of reconstituted samples are stable at -20°C for 3 months.  
**Amino Acid :** GSHMSQWYELQQLDSKFLEQVHQLYDDSPMEIRQYLAQWLEKQDWEHAANDVSFATIRFHDLLSQLDDQY SRFSLENNFLLQHNIRKSKRNLDNFQEDPIQMSMIIYSCLKEERKILENAQRFNQAQSGNIQSTVMLDKQKELD SKVRNVKDKVMCIEHEIKSLEDLQDEYDFKCKTLQNHETNGVAKSDQKQEQLLKKMYLMLDNKRKEVHK IIELLNVTETLQNALINDELVEWKRRQQSACIGPPNACLDQLQNWFTIVAESLQQVRQQLKLEELQKYTYEH DPITKNKQVLWDRTFSLFQQLIQSSFVVERQPCMPHPQRPLVLTGVTQFTVLRLLVQLQELNYNLKVKVLFDK DVNERNTVKGFRKFNILGHTTKVMNMEESTNGSLAAEFRHLQLKEQKNAGTRTNEGPLIVTEELHLSLFSFETQLC QPGLVIDLETTSLPVVISNVSQLP SGWASILWYNMLVAEPRNLSFFLTPPCARWAQLSEVLSWQFSSVTKRGL NVDQLNMLGEKLLGPNASPDGLIPWTRFCKENINDKNFPFWLWIESILELIKKHLLPLWNDGCIMGFISKERERA LLKDQQPGTFLFRFSESSREGAITFTWVERSQNGGEPDFHAVEPYTKKELSAVTFPDIIRNYKVMAAENIPENPLK YLYPNIDKDHAFGKYYSRPKEAPEPEMELDGPKGTGYIKTELISVSEV

### Application Note

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 ddH<sub>2</sub>O. Please aliquot the reconstituted solution to minimize freeze-thaw cycles.

**Endotoxin :** Less than 0.1 ng/µg (1 IEU/µg) as determined by LAL test.