

Product Information

STAT1 β , GST-tagged, human recombinant, expressed in Sf9 cells

Catalog Number **SRP5137**
Storage Temperature -70°C

Synonyms: ISGF-3, STAT91, DKFZp686B04100

Product Description

STAT1 β is a member of the signal transducers and activators of transcription (STAT) family of proteins that carry out a dual function: signal transduction and activation of transcription. STAT1 β transcription factor is specific for the IFN pathway and plays a central role in mediating many, if not all, IFN-dependent biological responses.¹ Presence of STAT1 β leads to an efficient antiviral response when cells were infected with virus suggesting a STAT-dependent pathway is activated following virus infection by endogenously produced IFN. Virus-induced STAT protein translocation from the cytoplasmic compartment can be detected within 3 hours of infection.

Recombinant, full-length, human STAT1 β was expressed by baculovirus in Sf9 insect cells using an N-terminal GST tag. The gene accession number is NM_139266. Recombinant protein stored in 50 mM Tris-HCl, pH 7.5, 150 mM NaCl, 10 mM glutathione, 0.1 mM EDTA, 0.25 mM DTT, 0.1 mM PMSF, and 25% glycerol.

Molecular mass: ~118 kDa

Purity: 70–95% (SDS-PAGE, see Figure 1)

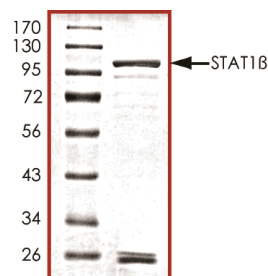
Precautions and Disclaimer

This product is for R&D use only, not for drug, household, or other uses. Please consult the Material Safety Data Sheet for information regarding hazards and safe handling practices.

Storage/Stability

The product ships on dry ice and storage at -70°C is recommended. After opening, aliquot into smaller quantities and store at -70°C . Avoid repeated handling and multiple freeze/thaw cycles.

Figure 1.
SDS-PAGE Gel of Typical Lot
70–95% (densitometry)



References

1. Improtà, T. et al., Susceptibility to virus infection is determined by a Stat-mediated response to the autocrine effect of virus-induced type I interferon. Cytokine, **9**(6), 383-93 (1997).

RC,MAM 11/11-1