

Product Information

STAT5, His-tagged, human recombinant, expressed in Sf9 cells

Catalog Number **SRP5142**
Storage Temperature -70°C

Synonyms: MGF, STAT5A

Product Description

STAT5 (signal transducers and activators of transcription 5) is a member of the STAT family and this protein is phosphorylated by receptor associated protein kinases in response to cytokines and growth factors.¹ The differentiation of T helper (Th) cells is regulated by members of the STAT family of signaling molecules. In BCR-ABL-positive cells, STAT5 is constitutively activated by tyrosine phosphorylation. STAT5 activation results in upregulation of Bcl-X_L and increased resistance to induction of apoptosis. STAT5 is involved in expression and growth hormone-mediated sexually dimorphic regulation of cytochrome P450 3A10, lithocholic acid 6 β -hydroxylase.²

Recombinant, full-length, human STAT5 was expressed by baculovirus in Sf9 insect cells using an N-terminal His tag. The gene accession number is NM_0031512. Recombinant protein stored in 50 mM sodium phosphate, pH 7.0, 300 mM NaCl, 150 mM imidazole, 0.1 mM PMSF, 0.25 mM DTT, and 25% glycerol.

Molecular mass: ~92 kDa

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

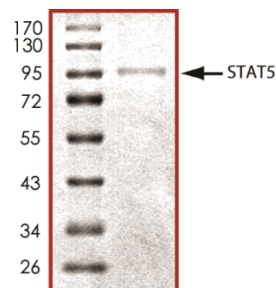
Precautions and Disclaimer

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. Wang, D. et al., Naturally occurring dominant negative variants of Stat5. *Molec. Cell Biol.*, **16**, 6141-6148 (1996).
2. Subramanian, A. et al., STAT 5 and NF-Y are involved in expression and growth hormone-mediated sexually dimorphic regulation of cytochrome P450 3A10/lithocholic acid 6 β -hydroxylase. *Nucleic Acids Res.*, **26**(9), 2173–2178 (1998).

RC,MAM 11/11-1