



# Recombinant Protein Technical Manual

## Recombinant Human STAT3 Protein (His Tag)

RPES5009

### Product Data:

**Product SKU:** RPES5009

**Size:** 10µg

**Species:** Human

**Expression host:** E. coli

**Uniprot:** P40763

### Protein Information:

**Molecular Mass:** 21.8 kDa

**AP Molecular Mass:** 18 kDa

**Tag:** C-6His

**Bio-activity:**

**Purity:** > 95 % as determined by reducing SDS-PAGE.

**Endotoxin:** < 1.0 EU per µg as determined by the LAL method.

**Storage:** Lyophilized proteins are stable for up to 12 months when stored at -20 to -80°C. Reconstituted protein solution can be stored at 4-8°C for 2-7 days. Aliquots of reconstituted samples are stable at < -20°C for 3 months.

**Shipping:** This product is provided as lyophilized powder which is shipped with ice packs.

**Formulation:** Lyophilized from a 0.2 µm filtered solution of 20mM PB,150mM NaCl,pH7.4.

**Reconstitution:** Please refer to the printed manual for detailed information.

**Application:**

**Synonyms:** Signal Transducer and Activator of Transcription 3; Acute-Phase Response Factor; STAT3; APRF

## Immunogen Information:

**Sequence:** Met 1-Asn175

## Background:

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- $\alpha$ , IL0, IL-6, IL1, IL2, 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.