

Recombinant Protein Technical Manual

Recombinant Human STAT1 Protein

RPES1886

Product Data:

Product SKU: RPES1886 **Size:** 10μg

Species: Human Expression host: E. coli

Uniprot: P42224-2

Protein Information:

Molecular Mass: 83.3 kDa

AP Molecular Mass: 85 kDa

Tag:

Bio-activity:

Purity: > 90 % as determined by reducing SDS-PAGE.

Endotoxin: $< 1.0 \text{ EU per } \mu\text{g}$ 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 1-Alpha/Beta; Transcription

Factor ISGF-3 Components p91/p84; STAT1;

CANDF7;IMD31A;IMD31B;IMD31C;ISGF-3;STAT91

Immunogen Information:

Sequence: Met 1-Val712

Background:

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.