

STAT6 Protein, Human (His)

Cat. No.:	HY-P71337
Synonyms:	Signal Transducer and Activator of Transcription 6; IL-4 Stat; STAT6
Species:	Human
Source:	E. coli
Accession:	P42226 (S627-Ser837)
Gene ID:	6778
Molecular Weight:	Approximately 30.0 kDa

PROPERTIES

AA Sequence	<p> S H Y K P E Q M G K D G R G Y V P A T I K M T V E R D Q P L P T P E L Q M P T M V P S Y D L G M A P D S S M S M Q L G P D M V P Q V Y P P H S H S I P P Y Q G L S P E E S V N V L S A F Q E P H L Q M P P S L G Q M S L P F D Q P H P Q G L L P C Q P Q E H A V S S P D P L L C S D V T M V E D S C L S Q P V T A F P Q G T W I G E D I F P P L L P P T E Q D L T K L L L E G Q G E S G G G S L G A Q P L L Q P S H Y G Q S G I S M S </p>
Appearance	Lyophilized powder.
Formulation	Lyophilized from a 0.2 µm filtered solution of PBS, pH 7.4.
Endotoxin Level	<1 EU/µg, determined by LAL method.
Reconstitution	It is not recommended to reconstitute to a concentration less than 100 µg/mL in ddH ₂ O. For long term storage it is recommended to add a carrier protein (0.1% BSA, 5% HSA, 10% FBS or 5% Trehalose).
Storage & Stability	Stored at -20°C for 2 years. After reconstitution, it is stable at 4°C for 1 week or -20°C for longer (with carrier protein). It is recommended to freeze aliquots at -20°C or -80°C for extended storage.
Shipping	Room temperature in continental US; may vary elsewhere.

DESCRIPTION

Background	<p> STAT6 (Signal Transducer and Activator of Transcription 6) is a multifunctional protein that plays a dual role in signal transduction and transcriptional activation. It is particularly involved in mediating signaling pathways triggered by interleukin-4 (IL-4) and interleukin-3 (IL-3). STAT6 can form homodimers or heterodimers with related family members, facilitating its engagement in various cellular processes. Additionally, STAT6 interacts with the nuclear receptor coactivator NCOA1 through its C-terminal LXXLL motif, suggesting a potential role in modulating gene expression. This interaction further underscores STAT6's involvement in transcriptional regulation, highlighting its versatility in coordinating signaling </p>
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events and transcriptional responses in cellular pathways.

Caution: Product has not been fully validated for medical applications. For research use only.

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