

STAT6 Protein, Human (sf9, His)

Cat. No.:	HY-P73627
Synonyms:	Signal Transducer and Activator of Transcription 6; IL-4 Stat; STAT6
Species:	Human
Source:	Sf9 insect cells
Accession:	P42226 (S2-W847)
Gene ID:	6778
Molecular Weight:	Approximately 100 kDa

PROPERTIES

AA Sequence

SLWGLVSKMP	PEKVQRLYVD	FPQHLRHLLG	DWLESQPWEF
LVGSDAFCCN	LASALLSDTV	QHLQASVGEQ	GEGSTILQHI
STLESYQRD	PLKLVATFRQ	ILQGEKKAVM	EQFRHLPMPF
HWKQEELKFK	TGLRRLQHRV	GEIHLREAL	QKGAEAGQVS
LHSLIETPAN	GTGPSEALAM	LLQETTGELE	AAKALVLKRI
QIWKRQQQLA	GNGAPFEESL	APLQERCESL	VDIYSQLQQE
VGAAGGELEP	KTRASLTGRL	DEVLRTLVT	CFLVEKQPPQ
VLKTQTKFQA	GVRFLGLRF	LGAPAKPPLV	RADMVTEKQA
RELSVPQGGP	AGAESTGEII	NNTVPLENSI	PGNCCSALFK
NLLLLKKIKRC	ERKGTESVTE	EKCAVLFSAS	FTLGPGLPI
QLQALSPLLV	VIVHGNQDNN	AKATILWDNA	FSEMDRVPFV
VAERVPWEKM	CETLNLKFMA	EVGTNRGLLP	EHFLFLAQKI
FNDNSLSMEA	FQHRSVSWSQ	FNKEILLGRG	FTFWQWFDGV
LDLTKRCLRS	YWSDRLLIGF	ISKQYVTSLL	LNEPDGTFLL
RFSDSEIGGI	TIAHVIRGQD	GSPQIENIQP	FSAKDLSIRS
LGDRIRDLAQ	LKNLYPKPK	DEAFRSHYKP	EQMGKDGRGY
VPATIKMTVE	RDQPLPTPEL	QMPTMVPSYD	LGMAPDSSMS
MQLGPDMPVQ	VYPPHSHSIP	PYQGLSPEES	VNVLSAFQEP
HLQMPPSLGQ	MSLPFDQPHP	QGLLPCQPQE	HAVSSPDPLL
CSDVTMVEDS	CLSQPVTAFP	QGTWIGEDIF	PPLLPPTEQD
LTKLLLEGQG	ESGGGSLGAQ	PLLQP SHYGQ	SGISMSHMDL
RANPSW			

Appearance Lyophilized powder.

Formulation Lyophilized from a 0.2 µm filtered solution of 20 mM Tris, 500 mM NaCl, pH 7.4, 20% Glycerol, 0.3 mM DTT. Normally 5% - 8% trehalose, mannitol and 0.01% Tween 80 are added as protectants before lyophilization.

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 ddH₂O.

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**

STAT6 is a versatile protein that executes a dual function encompassing both signal transduction and transcriptional activation. It plays a crucial role in mediating signaling cascades induced by IL4/interleukin-4 and IL3/interleukin-3. The protein exhibits the ability to form homodimers or heterodimers with related family members, contributing to its diverse functional roles in cellular responses. Additionally, STAT6 engages in specific protein-protein interactions, such as binding to NCOA1 through its C-terminal LXXLL motif, further highlighting its involvement in intricate cellular signaling networks.

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

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