

Recombinant Human STAT6 Protein (E.coli, His Tag)

Catalog Number: PKSH033528

Note: Centrifuge before opening to ensure complete recovery of vial contents.

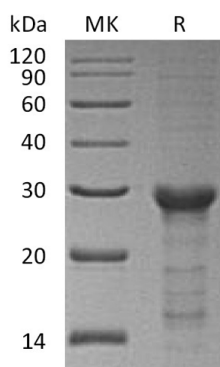
Description

Species	Human
Source	E.coli-derived Human STAT6 protein Ser627-Ser837, with an C-terminal His
Calculated MW	23.9 kDa
Observed MW	30 kDa
Accession	P42226
Bio-activity	Not validated for activity

Properties

Purity	> 85 % as determined by reducing SDS-PAGE.
Endotoxin	< 1.0 EU per µg of the protein as determined by the LAL method.
Storage	Generally, 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 PBS, pH 7.4. Normally 5% - 8% trehalose, mannitol and 0.01% Tween 80 are added as protectants before lyophilization. Please refer to the specific buffer information in the printed manual.
Reconstitution	Please refer to the printed manual for detailed information.

Data



> 85 % as determined by reducing SDS-PAGE.

Background

Signal Transducer and Activator of Transcription 6 (STAT6) is a member of the STAT family of transcription factors. At least seven STATs exist: STAT1, 2, 3, 4, 5a, 5b, and 6. They are responsible for an array of cellular activities including regulating growth, survival, differentiation, motility, and the immune response. STAT6 plays a central role in exerting IL4 mediated biological responses. It is found to induce the expression of BCL2L1/BCL-X(L), which is responsible for the anti-apoptotic activity of IL4. Knockout studies in mice suggested the roles of this gene in differentiation of T helper 2 (Th2) cells, expression of cell surface markers, and class switch of immunoglobulins. STAT6 has been shown to interact with EP300, CREB-binding protein, NFKB1, Nuclear receptor coactivator 1, IRF4 and SND1.

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