ELK1 Protein, Human (sf9, His-GST)

Cat. No.:	HY-P74176
Synonyms:	ETS domain-containing protein Elk-1; ELK1
Species:	Human
Source:	Sf9 insect cells
Accession:	P19419 (M1-P428)
Gene ID:	2002
Molecular Weight:	Approximately 73 kDa

PROPERTIES

Appearance	Lyophilized powder.
Formulation	Lyophilized from a 0.2 μm filtered solution of 20 mM Tris, 500 mM NaCl, pH 7.4, 10% Glycerol. 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.
Reconsititution	It is not recommended to reconstitute to a concentration less than 100 μg/mL in ddH_2O.
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	The ELK1 protein serves as a transcription factor with an affinity for binding purine-rich DNA sequences. It forms a ternary complex with SRF and the ETS and SRF motifs present in the serum response element (SRE) on the promoter region of immediate early genes, including FOS and IER2. ELK1 induces the transcription of target genes, particularly in response to stimulation of the JNK-signaling pathway. In its sumoylated form, ELK1 interacts with PIAS2/PIASX, thereby enhancing its transcriptional activator activity. Additionally, ELK1 engages in a direct interaction with MAD2L2, promoting phosphorylation by the kinases MAPK8 and/or MAPK9. Furthermore, ELK1 interacts with POU1F1, highlighting its diverse associations in cellular processes and regulatory networks.

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