Recombinant Human ELK1, His-tagged, Myc-tagged

Cat. No. ELK1-31H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human ELK-1 (amino acids 307-428) is produced in*E.Coli*as a maltose binding protein (MBP) fusion protein with an amino-terminal polyhistidine tag and a c-terminal myc tag (EQKLISEEDL), and having a molecular mass of 60 kDa. Elk-1 is purified by proprietary chromatographic techniques.
Species	Human
Source	E.coli
ProteinLength	307-428 a.a.
Description	Elk-1 is a transcription factor that is activated by mitogen-activated protein kinases (MAPKs) and whose main function is the regulation of growth-related proteins in response to extracellular stimuli. Because of the importance of Elk-1 to the regulation of successful cell growth, accurate monitoring of Elk-1 in cells, tissues and animals is crucial for many biomedical research and drug development projects.
Purity	Greater than 95% as determined by SDS-PAGE.
Formulation	ELK-1 is supplied as lyophilized freeze dry powder without additives.
Biological Activity	Recombinant human Elk-1 is phosphorylatable in vitro, using either recombinant active ERK1/2, or with immunoprecipitated ERK1/2 from stimulated cells. This phosphorylation can be monitored by Western blot analysis. Optimization of the cell stimulation protocol, cell lysis procedure, and reaction conditions may be required for

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	each specific application. Please note: Kinase activity may vary depending on the substrate and reaction conditions.
Storage	Store at 2-8°C if entire vial will be used within 1-2 weeks. Store, frozen at -20°C for longer periods of time. Avoid multiple freeze-thaw cycles.

GENE INFORMATION

Gene Name	ELK1 ELK1, member of ETS oncogene family [Homo sapiens]
Synonyms	ELK1; ELK1, member of ETS oncogene family;ETS domain-containing protein Elk-1; OTTHUMP00000023224; OTTHUMP00000023225; ETS-like gene 1
Gene ID	2002
mRNA Refseq	NM_001114123
Protein Refseq	NP_001107595
UniProt ID	P19419
Chromosome Location	Xp11.2
MIM	311040
Pathway	Endometrial cancer; ErbB signaling pathway; Focal adhesion; GnRH signaling pathway; Insulin signaling pathway; MAPK signaling pathway; Prion diseases; Signalling by NGF
Function	protein binding; sequence-specific DNA binding; transcription factor activity

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