



## Product Datasheet

<b>Product Name</b>	Elk-1 Human Recombinant
<b>Cata No</b>	CB500866
<b>Source</b>	<i>Escherichia Coli.</i>
<b>Synonyms</b>	ETS domain-containing protein Elk-1, ELK1, Elk-1.

### 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.

ELK-1 (amino acids 307-428) Human Recombinant 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.

### 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 each specific application.

**Please note: Kinase activity may vary depending on the substrate and reaction conditions.**

### Purity

Greater than 95% as determined by SDS-PAGE.

### Formulation

ELK-1 is supplied as lyophilized freeze dry powder without additives.