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Product Information

ELK1, GST-tagged, human recombinant, expressed in *E. coli* cells

Catalog Number **SRP5179**
Storage Temperature –70 °C

Product Description

ELK1 is a member of the ETS oncogene family of transcription factors.[1] ELK1 protein interacts with promoter of the c-fos proto-oncogene and has been shown to be involved in the Ras-Raf-MAPK signaling cascade.[1] Immature phosphorylation of transcription factor ELK-1 is implicated in premature aging syndrome and insulin resistance. Expression studies have revealed that elevated expression of ELK1-like protein in human esophageal can result in squamous cell carcinoma.[2]

Recombinant full-length human ELK1 was expressed in *E. coli* cells using an N-terminal GST tag. The gene accession number is NM_005229. Recombinant protein stored in 50 mM Tris-HCl, pH 7.5, 150 mM NaCl, 10 mM glutathione, 0.1 mM EDTA, 0.25 mM DTT, 0.1 mM PMSF, and 25% glycerol.

Molecular mass: ~81 kDa

Purity: 70–95% (SDS-PAGE, see Figure 1)

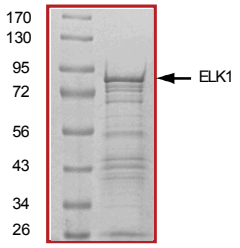
Precautions and Disclaimer

This product is for R&D use only, not for drug, household, or other uses. Please consult the Material Safety Data Sheet for information regarding hazards and safe handling practices.

Storage/Stability

The product ships on dry ice and storage at –70 °C is recommended. After opening, aliquot into smaller quantities and store at –70 °C. Avoid repeated handling and multiple freeze/thaw cycles.

Figure 1.
SDS-PAGE Gel of Typical Lot
70–95% (densitometry)



References

1. Chen, A.G. et al., Overexpression of Ets-like protein 1 in human esophageal squamous cell carcinoma. World J. Gastroenterol., **12(48)**, 7859-63 (2006).
2. Knebel, B. et al., Reduced phosphorylation of transcription factor Elk-1 in cultured fibroblasts of a patient with premature aging syndrome and insulin resistance. Exp. Clin. Endocrinol. Diabetes, **113(2)**, 94-101 (2005).

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