

Product Information

KAT9, GST-tagged, human recombinant, expressed in *Sf9* insect cells

Catalog Number **SRP5201**

Storage Temperature –70 °C

Synonyms: KAT9, ELP3, FLJ10422

Product Description

KAT9 (also known as ELP3) is the catalytic subunit of the histone acetyltransferase (HAT) elongator complex, which contributes to transcript elongation and also regulates the maturation of projection neurons. The knockdown of KAT9 by antisense morpholinos in zebrafish embryos resulted in dose-dependent shortening and abnormal branching of motor neurons with no concomitant morphologic abnormalities.¹ KAT9 knockdown also impairs paternal DNA demethylation as indicated by reporter binding, immunostaining, and bisulfite sequencing.²

Recombinant, full-length, human KAT9 (ELP3) was expressed by baculovirus in *Sf9* insect cells using an N-terminal GST tag. The gene accession number is NM_018091. 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: ~86 kDa

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

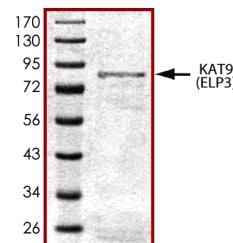
Precautions and Disclaimer

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. Simpson, C.L. et al., Variants of elongator protein 3 (ELP3) gene are associated with motor neuron degeneration. *Hum. Molec. Genet.*, **18**, 472-481 (2009).
2. Okada, Y. et al., A role for the elongator complex in zygotic paternal genome demethylation. *Nature*, **463**, 554-558 (2010).

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