

Recombinant Human Elongation Protein 3 Homolog (S. Cerevisiae), GST-tagged

Cat. No. ELP3-1583H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant full-length human ELP3 was expressed by baculovirus in Sf9 insect cells using an N-terminal GST tag.
Species	Human
Source	Sf9 Cells
Description	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 ELP3 by antisense morpholinos in zebrafish embryos resulted in dose-dependent shortening and abnormal branching of motor neurons with no concomitant morphologic abnormalities. ELP3 knockdown also impairs paternal DNA demethylation as indicated by reporter binding, immunostaining, and bisulfite sequencing.
Applications	Western Blot
Molecular Weight	86 kDa
Expression System	Sf9 insect cells using baculovirus
Form	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, 25 % glycerol.

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Purity	> 75 %
Concentration	0.1 ug/ul
Sequences	Full length
Storage	Store product at -70°C. For optimal storage, aliquot target into smaller quantities after centrifugation and store at recommended temperature. For most favorable performance, avoid repeated handling and multiple freeze/thaw cycles.

GENE INFORMATION

Gene Name	ELP3 elongation protein 3 homolog (<i>S. cerevisiae</i>) [<i>Homo sapiens</i>]
Official Symbol	ELP3
Synonyms	ELP3; elongation protein 3 homolog (<i>S. cerevisiae</i>); KAT9; FLJ10422; elongator complex protein 3; hELP3; OTTHUMP000000128319; OTTHUMP000000225327; OTTHUMP000000225330; EC 2.3.1.48
Gene ID	55140
mRNA Refseq	NM_018091
Protein Refseq	NP_060561
MIM	612722
UniProt ID	Q9H9T3
Chromosome Location	8p21.1

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Function

contributes_to DNA binding; N-acetyltransferase activity; histone acetyltransferase activity; iron-sulfur cluster binding; metal ion binding; phosphorylase kinase regulator activity; protein binding; transferase activity, transferring acyl groups

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