

Recombinant Mouse Alkbh8 Protein, Myc/DDK-tagged

Cat. No. Alkbh8-1603M **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Purified recombinant protein of mouse full-length alkB homolog 8, tRNA methyltransferase (Alkbh8), with C-terminal MYC/DDK tag, expressed in HEK293T cells.
Species	Mouse
Source	HEK293
Description	Catalyzes the methylation of 5-carboxymethyl uridine to 5-methylcarboxymethyl uridine at the wobble position of the anticodon loop in tRNA via its methyltransferase domain. Catalyzes the last step in the formation of 5-methylcarboxymethyl uridine at the wobble position of the anticodon loop in target tRNA. Has a preference for tRNA(Arg) and tRNA(Glu), and does not bind tRNA(Lys). Binds tRNA and catalyzes the iron and alpha-ketoglutarate dependent hydroxylation of 5-methylcarboxymethyl uridine at the wobble position of the anticodon loop in tRNA via its dioxygenase domain, giving rise to 5-(S)-methoxycarbonylhydroxymethyluridine; has a preference for tRNA(Gly). Required for normal survival after DNA damage. May inhibit apoptosis and promote cell survival and angiogenesis.
Molecular Mass	74.8 kDa
Purity	> 80% as determined by SDS-PAGE and Coomassie blue staining
Stability	Stable for 12 months from the date of receipt of the product under proper storage and handling conditions. Avoid repeated freeze-thaw cycles.

 Tel: 1-631-559-9269 1-516-512-3133

 Email: info@creative-biomart.com  Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA

Storage	Store at -80 centigrade after receiving vials.
Concentration	>50 µg/mL as determined by microplate BCA method
Storage Buffer	25 mM Tris.HCl, pH 7.3, 100 mM glycine, 10% glycerol.
GENE INFORMATION	
Gene Name	Alkbh8 alkB homolog 8, tRNA methyltransferase [<i>Mus musculus</i> (house mouse)]
Official Symbol	Alkbh8
Synonyms	ALKBH8; alkB, alkylation repair homolog 8 (E. coli); alkylated DNA repair protein alkB homolog 8; probable alpha-ketoglutarate-dependent dioxygenase ABH8; tRNA (carboxymethyluridine(34)-5-O)-methyltransferase ABH8; S-adenosyl-L-methionine-dependent tRNA methyltransferase ABH8; Abh8; 4930562C03Rik; 8030431D03Rik; 9430088N01Rik; MGC10235
Gene ID	67667
mRNA Refseq	NM_026303
Protein Refseq	NP_080579
UniProt ID	Q80Y20