

Recombinant Mouse Alkbh7 Protein, Myc/DDK-tagged

Cat. No. Alkbh7-1602M **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Purified recombinant protein of mouse full-length alkB, alkylation repair homolog 7 (E. coli) (cDNA clone MGC:39017 IMAGE:5364485), complete cds, with C-terminal MYC/DDK tag, expressed in HEK293T cells.
Species	Mouse
Source	HEK293
Description	May function as protein hydroxylase; can catalyze auto-hydroxylation at Leu-110 (in vitro), but this activity may be due to the absence of the true substrate. Required to induce programmed necrosis in response to DNA damage caused by cytotoxic alkylating agents. Acts by triggering the collapse of mitochondrial membrane potential and loss of mitochondrial function that leads to energy depletion and cell death. ALKBH7-mediated necrosis is probably required to prevent the accumulation of cells with DNA damage. Does not display DNA demethylase activity. Involved in fatty acid metabolism.
Molecular Mass	24.1 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.
Storage	Store at -80 centigrade after receiving vials.

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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 [Alkbh7](#) [alkB homolog 7 \[Mus musculus \(house mouse\) \]](#)

Official Symbol [Alkbh7](#)

Synonyms [Alkbh7](#); [alkB homolog 7](#); [Abh](#); [Spa](#); [Abh7](#); [Spata11](#); [2310045B01Rik](#); [2510008E23Rik](#); [alpha-ketoglutarate-dependent dioxygenase alkB homolog 7, mitochondrial](#); [alkB](#), [alkylation repair homolog 7](#); [alkylated DNA repair protein alkB homolog 7](#); [probable alpha-ketoglutarate-dependent dioxygenase ABH7](#); [spermatogenesis associated 11](#)

Gene ID [66400](#)

mRNA Refseq [NM_025538](#)

Protein Refseq [NP_079814](#)

UniProt ID [Q9D6Z0](#)

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