

Recombinant Human ALKBH8

Catalog No: #GP12459



Package Size: #GP12459-1 100ug

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Description

Product Name	Recombinant Human ALKBH8
Brief Description	Recombinant Protein
Immunogen Description	Full length fusion protein
Target Name	alkB homolog 8, tRNA methyltransferase
Other Names	ABH8; TRM9; TRMT9
Accession No.	Swissprot:Q96BT7Gene Accession:BC015183
Uniprot	Q96BT7
GeneID	91801;
Storage	-20~-80°C, pH 7.6 PBS

Background

ALKBH8 (alkylated DNA repair protein AlkB homolog 8) is a 664 amino acid protein that is encoded by a gene located on chromosome 11. ALKBH8 contains one RRM (RNA recognition motif) domain and belongs to the AlkB family of proteins. ALKBH8 is one of many homologs of the Escherichia coli protein AlkB. AlkB functions to protect DNA and RNA against damage from environmental methylating compounds by directly reversing 1-methyladenine (1-meA) and 3-methylcytosine (3-meC) cytotoxic alkylation lesions in DNA and RNA. The enzyme acts by oxidative demethylation, utilizing ferrous iron and alpha-ketoglutarate as cofactors, 2-oxoglutarate as a co-substrate and molecular oxygen as the oxidizing agent. Three isoforms exist for ALKBH8 due alternative splicing of the gene.

References

Note: For in vitro research use only, not for diagnostic or therapeutic use. This product is not a medical device.

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