

Alpha-ketoglutarate-dependent dioxygenase AlkB (alkB) Recombinant Protein | alkB recombinant protein

Recombinant Escherichia coli Alpha-ketoglutarate-dependent dioxygenase AlkB (alkB)

CATALOG # AAA114768	HOST E Coli or Yeast or Baculovirus or Mammalian Cell
-------------------------------	---

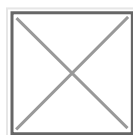
PRODUCT SYNONYMS

Alpha-ketoglutarate-dependent dioxygenase AlkB (alkB); Recombinant Escherichia coli Alpha-ketoglutarate-dependent dioxygenase AlkB (alkB); Alpha-ketoglutarate-dependent dioxygenase AlkB; EC=1.14.11.-; Alkylated DNA repair protein AlkB; alkB recombinant protein

PRODUCT SPECIFICATIONS

Host	E Coli or Yeast or Baculovirus or Mammalian Cell
Purity/Purification	Greater or equal to 85% purity as determined by SDS-PAGE.
Form/Format	Lyophilized or liquid (Format to be determined during the manufacturing process)
Sequence Positions	1-216aa; Full Length
Sequence	MLDLFADAEP WQEPLAAGAV ILRRFAFNAA EQLIRDINDV ASQSPFRQMV TPGGYTMSVA MTNCGHLGWT THRQGYLYSP IDPQTNKPWP AMPQSFHNLQ QRAATAAGYP DFQPDACLIN RYAPGAKLSL HQDKDEPDLR APIVSVSLGL PAIFQFGGLK RNDPLKRLLL EHGDVVVWGG ESRLFYHGIQ PLKAGFHPLT IDCRYNLTFR QAGKKE
Species	Escherichia coli (strain K12)
Production Note	Special Offer: The E Coli host-expressed protein is manufactured from a stock plasmid containing the protein gene. E Coli host-expressed protein is stocked in different unit sizes ranging from as small as 10 ug to as large as 1 mg. Bulk inventory is also available. The E Coli host-expressed protein has been ordered over and over again by researchers and has stood the test of time as both a robust protein and important target for the research community. It is part of our new program to make our most popular protein targets and corresponding hosts available in expanded unit sizes and with a quick processing time. Select E Coli host-expressed protein for the fastest delivery among all hosts. Please contact our or email to for more details.
Preparation and Storage	Store at -20 degrees C. For long-term storage, store at -20 degrees C or -80 degrees C. Store working aliquots at 4 degrees C for up to one week. Repeated freezing and thawing is not recommended.

IMAGES



SDS-PAGE

ADDITIONAL INFORMATION

Related Product Information for alkB recombinant protein	Dioxygenase that repairs alkylated DNA and RNA containing 3-methylcytosine or 1-methyladenine by oxidative demethylation. Has highest activity towards 3-methylcytosine. Has lower activity towards alkylated DNA containing ethenoadenine, and no detectable activity towards 1-methylguanine or 3-methylthymine. Accepts double-stranded and single-stranded substrates. Requires molecular oxygen, alpha-ketoglutarate and iron. Provides extensive resistance to alkylating agents such as MMS and DMS (SN2 agents), but not to MMNG and MNU (SN1 agents).
--	--

NCBI AND UNIPROT INFORMATION

NCBI GI #	16130149
NCBI GeneID	12932924
NCBI Accession #	NP_416716.1
NCBI GenBank Nucleotide #	NC_000913.3
UniProt Accession #	P05050; AP_002808
Molecular Weight	44.1 kDa
NCBI Official Full Name	oxidative demethylase of N1-methyladenine or N3-methylcytosine DNA lesions
NCBI Official Symbol	alkB
NCBI Protein Information	oxidative demethylase of N1-methyladenine or N3-methylcytosine DNA lesions
UniProt Protein Name	Alpha-ketoglutarate-dependent dioxygenase AlkB
UniProt Gene Name	alkB
UniProt Synonym Gene Names	aidD
UniProt Entry Name	ALKB_ECOLI

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

AAA Biotech | Tel: +1 (619) 604-9440 | Fax: +1 (619) 604-9441 | contact@aaabiotech.com

Online datasheet: <https://stage.aaabiotech.com/alkb-recombinant-protein-e-coli-or-yeast-or-baculovirus-or-mammalian-cell/114768>