

ALKBH2 recombinant protein

Recombinant ALKBH2 protein

CATALOG #
AAA60148

HOST
E Coli

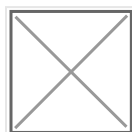
PRODUCT SYNONYMS

ALKBH2; Recombinant ALKBH2 protein; AlkB Homolog 2; Alpha-Ketoglutarate Dependent Dioxygenase; Oxy DC1; ALKBH2 recombinant protein

PRODUCT SPECIFICATIONS

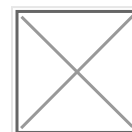
Host	E Coli
Form/Format	Recombinant ALKBH2 protein is supplied in 25mM Tris pH8.0, 300mM NaCl, 20% glycerol, 0.5mM TCEP.
Protein Species	Human
Tag	His-Tag
Notes	Recombinant ALKBH2 protein is suitable for use in enzyme kinetics, inhibitor screening, and selectivity profiling.
Dry Ice Note	The product may be shipped with dry ice, and an additional fee may be added to your shipping cost.
Preparation and Storage	Recombinant proteins in solution are temperature sensitive and must be stored at -80 degree C to prevent degradation. Avoid repeated freeze/thaw cycles and keep on ice when not in storage. Shipping Temp: Dry Ice

IMAGES



Application Data

ALKBH2 dioxygenase activity assay 1 ug of ssDNA oligos (5'-AAAGCAG(1mA)ATTCGAAAAAGCGAAA-3') was incubated with 0 ug, 0.5 ug, 1 ug, 2 ug, 4 ug of ALKBH2 in 50 ul reaction system including 50 mM HEPES-NaOH pH 8.0, 50 ?M Fe(NH4)2(SO4)2, 1 mM 2-oxoglutarate, 2 mM ascorbate and 1 mM TCEP for 30 min at 37 degree C. Then ssDNA oligos were annealed with equimolar of non-methylated complement strand followed by 1 ug EcoRI digestion for 45 min at 37 degree C. 1/4 reaction products were run on a 20% Native PAGE gel and stained by ethidium bromide.



SDS-PAGE

Recombinant ALKBH2 protein 10% SDS-PAGE Coomassie staining MW: 33.1 kDa Purity: >82%

ADDITIONAL INFORMATION

Related Product Information for ALKBH2 recombinant protein

Short Description: Full-length ALKBH2 protein (accession number NP_001001655.1) was expressed in E Coli with an N-terminal 6xHis-tag. The molecular weight of ALKBH2 is 33.1 kDa. Recombinant ALKBH2 protein is suitable for use in enzyme kinetics, inhibitor screening, and selectivity profiling.

Background: ALKBH2 (AlkB Homolog 2, Alpha-Ketoglutarate Dependent Dioxygenase) is a member of ALKBH protein family. It can repair alkylated DNA and RNA containing 1-methyladenine and 3-methylcytosine by oxidative demethylation. ALKBH2 can also repair alkylated DNA containing 1-ethenoadenine (in vitro). Has strong preference for double-stranded DNA. It can release modified bases from both DNA and RNA. The oxidative demethylation requires molecular oxygen, alpha-ketoglutarate and iron.

Product Categories/Family for ALKBH2 recombinant protein

[Recombinant Proteins](#); [DNA Damage](#); [Transcription](#)

NCBI AND UNIPROT INFORMATION

NCBI GI #	48717226
NCBI GeneID	121642
NCBI Accession #	NP_001001655.1
NCBI GenBank Nucleotide #	NM_001001655.2
UniProt Accession #	Q6NS38; Q5XLE3; A4PET2
Molecular Weight	17,083 Da
NCBI Official Full Name	alpha-ketoglutarate-dependent dioxygenase alkB homolog 2 isoform 1
NCBI Official Synonym Full Names	alkB, alkylation repair homolog 2 (E. coli)
NCBI Official Symbol	ALKBH2
NCBI Official Synonym Symbols	ABH2
NCBI Protein Information	alpha-ketoglutarate-dependent dioxygenase alkB homolog 2; 2OG-Fe(II) oxy DC1; DNA oxidative demethylase ALKBH2; alkylated DNA repair protein alkB homolog 2
UniProt Protein Name	Alpha-ketoglutarate-dependent dioxygenase alkB homolog 2
UniProt Gene Name	ALKBH2
UniProt Synonym Gene Names	ABH2
UniProt Entry Name	ALKB2_HUMAN

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/alkbh2-recombinant-protein-e-coli/60148>