

Product information

ALKBH3, 1-286 aa

Human, His-tagged, Recombinant, *E.coli*

Cat. No. IBATGP0981

Full name: Alpha-ketoglutarate-dependent dioxygenase alkB homolog 3

NCBI Accession No.: NP_631917

Synonyms: ABH3, DEPC-1, DEPC1, PCA1.

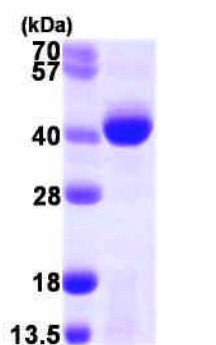
Description: ALKBH3 is a member of the ALKB family of proteins and functions as a dioxygenase with a preference for RNA and single stranded DNA substrates. This protein repairs 1-methyladenine and 3-methylcytosine lesions in alkylated DNA and RNA and its activity is stimulated by ascorbate. ALKBH3 is expressed in a wide variety of tissues and localizes to the cytoplasm and the nucleus. Recombinant human ALKBH3 protein, fused to His-tag at N-terminus, was expressed in *E.coli* and purified by using conventional chromatography techniques.

Form: Liquid. In 20mM Tris-HCl buffer(pH 8.0) containing 10% glycerol, 2mM DTT, 0.1M NaCl.

Molecular Weight: 37.9 kDa (325aa), confirmed by MALDI-TOF

Purity: > 95 % by SDS - PAGE

Concentration: 1 mg/ml (determined by Bradford assay)



15% SDS-PAGE (3ug)

Sequences of amino acids:

MRGSHHHHHH GMASMTGGQQ MGRDLYDDDD KDRWGSELDM EEKRRRARVQ GAWAAPVKSQ AIAQPATTAK SHLHQKPGQT WKNKEHHLSD
REFVFKPEPQQ VVRRAPEPRV IDREGVYEIS LSPTGVS RVC LYPGFVDVKE ADWILEQLCQ DVPWKQRTGI REDITYQQPR LTAWYGELPY
TYSRITMEPN PHWHPVLR TL KNRIEENTGH TFNSLLCNLY RNEKDSVDWH SDDEPSLGRC PIIASLSFGA TRTFEMRKKP PPEENGDYTY
VERVKIPLDH GTLLIMEGAT QADWQHRV PK EYHSREPRVN LTFRTVY PDP RGAPW

General references:

Ougland R., *et al.* (2004) *Mol Cell.* 16(1):107-16.

Duncan T., *et al.* (2002) *Proc Natl Acad Sci U S A.* 99(26):16660-5.

Storage: Can be stored at +4°C short term (1-2 weeks). For long term storage, aliquot and store at -20°C or -70°C. Avoid repeated freezing and thawing cycles.

For research use only. This product is not intended or approved for human, diagnostics or veterinary use.