

Recombinant human ALKBH3 protein

Catalog Number: ATGP0981

PRODUCT INFORMATION

Expression system

E.coli

Domain

1-286aa

UniProt No.

Q96Q83

NCBI Accession No.

NP_631917.1

Alternative Names

Alpha-ketoglutarate-dependent dioxygenase alkB homolog 3, ABH3, DEPC-1, DEPC1, PCA1

PRODUCT SPECIFICATION

Molecular Weight

37.8 kDa (325aa) confirmed by MALDI-TOF

Concentration

1mg/ml (determined by Bradford assay)

Formulation

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

Purity

> 90% by SDS-PAGE

Tag

His-Tag

Application

SDS-PAGE

Storage Condition

Can be stored at +2C to +8C for 1 week. For long term storage, aliquot and store at -20C to -80C. Avoid repeated freezing and thawing cycles.

BACKGROUND

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.

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Amino acid Sequence

<MRGSHHHHHH GMASMTGGQQ MGRDLYDDDD KDRWGSELD>M EEKRRRARVQ GAWAAPVKSQ AIAQPATTAK
SHLHQKPGQT WKNKEHHLSL REFVFKEPQQ VVRRAPRPRV IDREGVYEIS LSPTGVSRVC LYPGFVDVKE ADWILEQLCQ
DVPWKQRTGI REDITYQQPR LTAWYGELPY TYSRITMEPN PHWHPVLRRL KNRIEENTGH TFNSLLCNLY RNEKDSVDWH
SDDEPSLGRC PIASLSFGA TRTFEMRKKP PPEENGDTY VERVKIPLDH GTLLIMEGAT QADWQHRVPK EYHSREPRVN
LTFRTVYPDP RGAPW

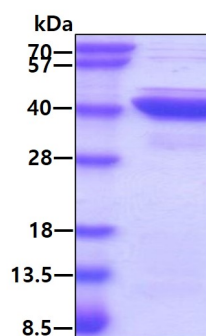
General References

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.

DATA

SDS-PAGE



3ug by SDS-PAGE under reducing condition and visualized by coomassie blue stain.