

## ALKBH3 Human

**Description:**ALKBH3 Human Recombinant fused to 39 amino acid His Tag at N-terminal produced in E.Coli is a single, non-glycosylated, polypeptide chain containing 325 amino acids (1-286 a.a.) and having a molecular mass of 37.9kDa. The ALKBH3 is purified by proprietary chromatographic techniques.

**Catalog #:**ENPS-108

For research use only.

**Synonyms:**Alpha-ketoglutarate-dependent dioxygenase alkB homolog 3, Alkylated DNA repair protein alkB homolog 3, DEPC-1, Prostate cancer antigen 1, ALKBH3, ABH3, DEPC1, PCA1, FLJ43614, MGC118790, MGC118792, MGC118793.

**Source:**Escherichia Coli.

**Physical Appearance:**Sterile Filtered colorless solution.

**Amino Acid Sequence:**MRGSHHHHHH GMASMTGGQQ MGRDLYDDDD KDRWGSELDMEKRRRRARVQ GAWAAPVKSQ AIAQPATTAK SHLHQKPGQT WKNKEHHLS REFVFKEPQQ VVRRPEPRV IDREGVYEIS LSPTGVSRC LYPGFVDVKE ADWILEQLCQ DVPWKQRTGI REDITYQQPR LTAWYGELPY TYSRITMEPN PHWHPVLR TLKNRIEENTGH TFNSLLCNLY RNEKDSVDWH SD

**Purity:**Greater than 95.0% as determined by SDS-PAGE.

### Formulation:

The ALKBH3 solution 1mg/ml contains 20mM Tris-HCl buffer (pH 8.0), 10% glycerol, 2mM DTT and 0.1M NaCl.

### Stability:

Store at 4°C if entire vial will be used within 2-4 weeks. Store, frozen at -20°C for longer periods of time. For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA). Avoid multiple freeze-thaw cycles.

### Usage:

NeoBiolab's products are furnished for LABORATORY RESEARCH USE ONLY. The product may not be used as drugs, agricultural or pesticidal products, food additives or household chemicals.

### Introduction:

ALKBH3 belongs to the ALKB family of proteins and acts as a dioxygenase with a preference for RNA and single stranded DNA substrates. ALKBH3 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 broad array of tissues and localizes to the cytoplasm and the nucleus.

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