

## AR09956PU-N

## Human ALKBH2 / ABH2 (1-261, His-tag) - Purified

### Alternate names:

Alkylated DNA repair protein alkB homolog 2, Alpha-ketoglutarate-dependent dioxygenase alkB homolog 2, Oxy DC1

### Quantity:

0.1 mg

### Concentration:

0.5 mg/ml (determined by Bradford assay)

### Background:

Alpha-ketoglutarate-dependent dioxygenase alkB homolog 2, also known ALKBH2, belongs to the ALKB family. Expressed in heart, colon, liver, testis, ovary, prostate and small intestine, ALKBH2 uses iron as a cofactor and functions as a dioxygenase that catalyzes the repair of alkylated DNA and RNA containing 1-methyladenine and 3-methylcytosine. ALKBH2 is functionally activated by ascorbate and requires oxygen and  $\alpha$ -ketoglutarate for enzymatic activity.

### Uniprot ID:

[Q6NS38](#)

### NCBI:

[NP\\_001001655](#)

### GeneID:

[121642](#)

### Species:

Human

### Source:

E. coli

### Format:

**State:** Liquid purified protein

**Purity:** >90%

**Buffer System:** 20mM Tris-HCl buffer (pH 8.0) containing 1mM DTT, 30% glycerol

### Description:

Recombinant human ALKBH2 protein, fused to His-tag at N-terminus, was expressed in E.coli and purified by using conventional chromatography techniques.

#### AA Sequence:

MGSSHHHHHH SSGLVPRGSH MDRFLVKGAQ GLLLRKQEEQ EPTGEPAVL GGDKESTRKR  
PRREAPGNGG HSAGPSWRHI RAEGLDCSYT VLFGKAEADE IFQELEKEVE YFTGALARVQ  
VFGKWHSVPR KQATYGDAGL TYTFSGLTLS PKPWIPVLER IRDHVSGVTG QTFNFVLINR  
YKDGCDHIGE HRDDERELAP GSPIASVSFG ACRDFVFRHK DSRGKSPSRR VAVVRLPLAH  
GSLLMMNHPT NTHWYHSLPV RKKVLAPRVN LTFRKILLTK K

**Molecular weight:** 31.4 kDa (281aa), confirmed by MALDI-TOF

### Storage:

Store undiluted at 2-8°C for up to two weeks or (in aliquots) at -20°C or -70°C for longer.

Avoid repeated freezing and thawing.

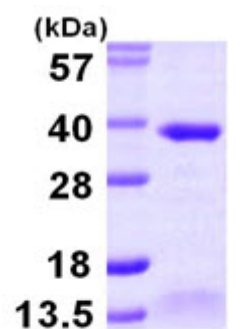
Shelf life: one year from despatch.

### General Readings:

Rinqvoll J., et al. (2008) Cancer Res. 68:4142-4149.

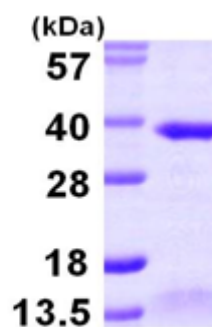
Lee D H., et al. (2005) J Biol Chem. 280:39448-39459.

**Pictures:**



15% SDS-PAGE (3ug)

Recombinant human ALKBH2, 1-261 aa,  
His-tagged



15% SDS-PAGE (3ug)