

# Product information

## ALKBH2, 1-261 aa

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

Cat. No. IBATGP1016

**Full name:** Alpha-ketoglutarate-dependent dioxygenase alkB homolog 2    **NCBI Accession No.:** NP\_001138847

**Synonyms:** ABH2, Oxy DC1

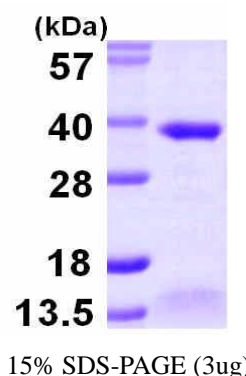
**Description:** Alpha-ketoglutarate-dependent dioxygenase alkB homolog 2, also known ALKBH2, belongs to the ALKB family. Expressed in heart, colon, liver, testis, ovary, prostate and small intestine, ALKBH2 uses iron as a cofactor and functions as a dioxygenase that catalyzes the repair of alkylated DNA and RNA containing 1-methyladenine and 3-methylcytosine. ALKBH2 is functionally activated by ascorbate and requires oxygen and  $\alpha$ -ketoglutarate for enzymatic activity. Recombinant human ALKBH2 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 1mM DTT, 30% glycerol

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

**Purity:** > 90% by SDS - PAGE

**Concentration:** 0.5 mg/ml (determined by Bradford assay)



### Sequences of amino acids:

MGSSHHHHHH SSGLVPRGSH MDRFLVKGAQ GLLLRKQEEQ EPTGEEPAVL GGDKESTRKR PRREAPNGG HSAGPSWRHI RAEGLDCSYT  
 VLFKAEADE IFQELEKEVE YFTGALARVQ VFGKWHVPR KQATYGDAGL TYTFSGLTSL PKPWIPVLER IRDHVSGVTG QTFNFVLINR  
 YKDGCDHIGE HRDDERELAP GSPIASVSFG ACRDFVFRHK DSRGKSPSRV VAVVRLPLAH GSLLMMNHPT NTHWYHSLPV RKKVLAPRVN  
 LTRFKILLTK K

### General references:

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

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

**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.**