Recombinant human ALKBH2 protein

Catalog Number: ATGP1016

PRODUCT INFORMATION

Expression system
E.coli

Domain
1-261aa

UniProt No.
Q6NS38

NCBI Accession No.
NP_001138847.1

Alternative Names
Alpha-ketoglutarate-dependent dioxygenase alkB homolog 2, ABH2, Oxy DC1

PRODUCT SPECIFICATION

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

Concentration
0.5mg/ml (determined by Bradford assay)

Formulation
Liquid in. 20mM Tris-HCl buffer (pH 8.0) containing 1mM DTT, 30% glycerol

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
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-meth-ylcytosine. 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.

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Amino acid Sequence

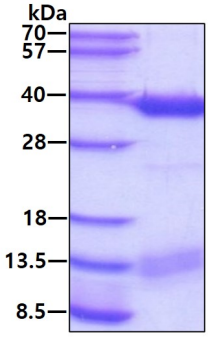
<MGSSHHHHHH SSGLVPRGSH> MDRFLVKGAQ GGLLRKQEEQ EPTGEEPAVL GGDKESTRKR PRREAPGNGG HSAGPSWRHI RAEGLDCSYT VLFGKAEADE IFQELEKEVE YFTGALARVQ VFGKWHSVPR KQATYGDAGL TYTFSGLTLS PKPWIPVLER IRDHVSGVTG QTFNFVLINR YKDGCDHIGE HRDDERELAP GSPIASVSFG ACRDFVFRHK DSRGKSPSRR VAVVRLPLAH GSLLMMNHPT NTHWYHSLPV RKKVLAPRVN LTFRKILLTK 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.

DATA

SDS-PAGE



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