

32-2149: ALKBH2 Recombinant Protein

Alternative Name Alpha-ketoglutarate-dependent dioxygenase alkB homolog 2, Alkylated DNA repair protein alkB homolog 2, Oxy DC1, ALKBH2, ABH2, FLJ99103, MGC90512.

Description

Source : Escherichia Coli. ALKBH2 produced in E.Coli is a single, non-glycosylated polypeptide chain containing 281 amino acids (1-261 a.a.) and having a molecular mass of 31.4kDa. ALKBH2 is fused to a 20 amino acid His-tag at N-terminus & purified by proprietary chromatographic techniques. ALKBH2 is a member of the ALKB family. ALKBH2 is expressed in the heart, colon, liver, testis, ovary, prostate and the small intestine. ALKBH2 uses iron as a cofactor and acts as a dioxygenase which catalyzes the repair of alkylated DNA and RNA containing 1-methyladenine and 3-methylcytosine. ALKBH2 is functionally activated by ascorbate and requires oxygen and α -ketoglutarate for enzymatic activity.

Product Info

Amount : 20 μ g
Purification : Greater than 90.0% as determined by SDS-PAGE.
Content : ALKBH2 solution (0.5mg/ml) containing 20mM Tris-HCl buffer (pH 8.0), 1mM DTT and 30% glycerol.
Storage condition : 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.
Amino Acid : MGSSHHHHHH SGLVPRGSH MDRFLVKGAQ GLLRKQEEQ EPTGEEP AVL GGDKESTRKR
PRREAPGNGG HSAGPSWRHI RA EGLDCSYT VLF GKAEAD E IFQELEKEVE YFTGALARVQ
VFGKWH SVPR KQATYGDAGL TYTF SGLT L S PKPWIPVLER IRDHVSGVTG QTFNFVLINR
YKDGCDHIGE HRDDERELAP GSPIASVSFG ACRDFVFRHK DSRGKSPSRR VAVVRLPLAH
GSLMMNHPT NTHWYHSLPV RKKVLAPRVN LTFRKILLTK K.

