
Product Data Sheet

Product Name: ALKBH2 Human
 Cat. No.: GP21398
 Batch No.: 1

Product Data

Purity	>98%	Source	Escherichia Coli.
Physical Appearance	solid	Shipping Condition	Shipped with Ice Packs.
Synonyms	Alpha-ketoglutarate-dependent dioxygenase alkB homolog 2; Alkylated DNA repair protein alkB homolog 2; Oxy DC1; ALKBH2; ABH2; FLJ99103; MGC90512.		
Amino Acid Sequence	MGSSHHHHHH SGLVPRGSH MDRFLVKGAQ GLLRKQEEQ EPTGEEPAVL GGDKESTRKR PRREAPGNGG HSAGPSWRHI RAEGLDCSYT VLFGKAEADE IFQELEKEVE YFTGALARVQ VFGKWHVPR KQATYGDAGL TYTFSGLTLS PKPWIPVLER IRDHVSGVTG QTFNFVLINR YKDGCDHIGE HRDDERELAP GSPIASVSFG ACRDFVFRHK DSRGKSPSRR VAVVRLPLAH GSLLMMNHPT NTHWYHSLPV RKKVLAPRVN LTFRKILLTK K.		
Formulation	ALKBH2 solution (0.5mg/ml) containing 20mM Tris-HCl buffer (pH 8.0), 1mM DTT and 30% glycerol.		

Introduction

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.

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.

Background

ALKBH2 produced in E.Coli is a single, non-glycosylated polypeptide chain containing

Caution: Product has not been fully validated for medical applications. For research use only.

Tel: (909) 407-4943 Fax: (626) 353-8530 E-mail: tech@glpbio.com

Address: 10292 Central Ave. #205, Montclair, CA, USA

Product Data Sheet

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.

Caution: Product has not been fully validated for medical applications. For research use only.

Tel: (909) 407-4943 Fax: (626) 353-8530 E-mail: tech@glpbio.com

Address: 10292 Central Ave. #205, Montclair, CA, USA