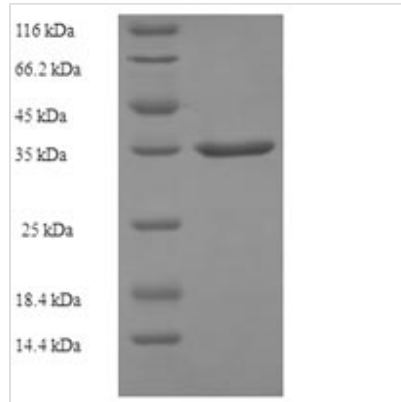




Recombinant Human Alpha-ketoglutarate-dependent dioxygenase alkB homolog 3 (ALKBH3)

Product Code	CSB-EP847209HU
Relevance	Dioxygenase that repairs alkylated DNA containing 1-methyladenine (1meA) and 3-methylcytosine (3meC) by oxidative demethylation. Has a strong preference for single-stranded DNA. Able to process alkylated 3mC within double-stranded regions via its interaction with ASCC3, which promotes DNA unwinding to generate single-stranded substrate needed for ALKBH3. May also act on RNA. Requires molecular oxygen, alpha-ketoglutarate and iron.
Abbreviation	Recombinant Human ALKBH3 protein
Storage	The shelf life is related to many factors, storage state, buffer ingredients, storage temperature and the stability of the protein itself. Generally, the shelf life of liquid form is 6 months at -20°C/-80°C. The shelf life of lyophilized form is 12 months at -20°C/-80°C.
Uniprot No.	Q96Q83
Alias	Alkylated DNA repair protein alkB homolog 3DEPC-1;Prostate cancer antigen 1
Product Type	Recombinant Protein
Immunogen Species	Homo sapiens (Human)
Purity	≥ 90% as determined by SDS-PAGE.
Sequence	MEEKRRRRARVQGAWAAPVKSQAIAQPATTAKSHLHQKPGQTWKNKEHHLSD REFVFKEPQQVVRRAPEPRVIEEGVYEISLSPTGVSRLYCLYPGFVDVKEADWIL EQLCQDVPWKQRTGIREDLSILQLTFKKSAPVSGTATAPQSCWYERPSPPHIPG PAILTRTRLWAP
Research Area	Epigenetics and Nuclear Signaling
Source	E.coli
Target Names	ALKBH3
Expression Region	1-170aa
Notes	Repeated freezing and thawing is not recommended. Store working aliquots at 4°C for up to one week.
Tag Info	N-terminal 6xHis-SUMO-tagged
Mol. Weight	35.3kDa
Protein Length	Full Length of Isoform 2
Image	



(Tris-Glycine gel) Discontinuous SDS-PAGE (reduced) with 5% enrichment gel and 15% separation gel.

Reconstitution

We recommend that this vial be briefly centrifuged prior to opening to bring the contents to the bottom. Please reconstitute protein in deionized sterile water to a concentration of 0.1-1.0 mg/mL. We recommend to add 5-50% of glycerol (final concentration) and aliquot for long-term storage at -20°C/-80°C. Our default final concentration of glycerol is 50%. Customers could use it as reference.

Shelf Life

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