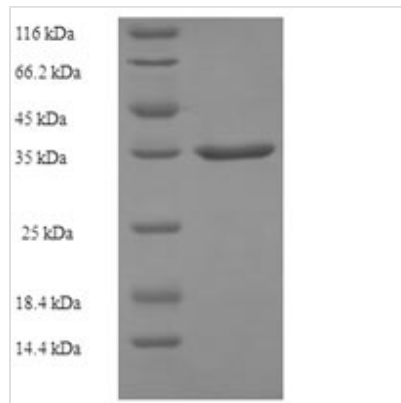




Recombinant Human Alpha-ketoglutarate-dependent dioxygenase alkB homolog 3(ALKBH3)

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.
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
Storage Buffer	Tris-based buffer,50% glycerol
Alias	Alkylated DNA repair protein alkB homolog 3DEPC-1;Prostate cancer antigen 1
Product Type	Recombinant Protein
Species	Homo sapiens (Human)
Purity	Greater than 90% as determined by SDS-PAGE.
Sequence	MEEKRRRRARVQGAWAAPVKSQAIAPATTAKSHLHQKPGQTWKNKEHHLSD REFVFKEPQQVVRRAPEPRVIEEGVYEISLSPTGVSRLVCLYPGFVDVKEADWIL EQLCQDVPWKQRTGIREDLSILQLTFKKSAPVSGTATAPQSCWYERPSPPHIPG PAILTRTRLWAP
Research Area	Epigenetics and Nuclear Signaling
Source	E.coli
Gene 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 Description	Full Length of Isoform 2
Image	



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