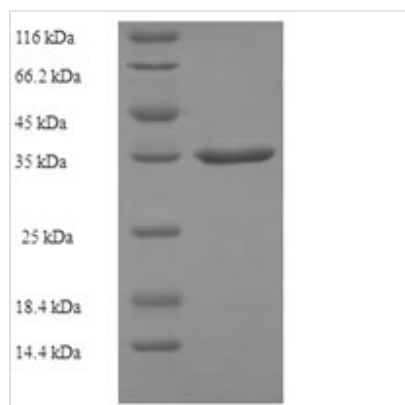




# Recombinant Human Alpha-ketoglutarate-dependent dioxygenase alkB homolog 3 (ALKBH3)

<b>Product Code</b>	CSB-EP847209HU
<b>Relevance</b>	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.
<b>Abbreviation</b>	Recombinant Human ALKBH3 protein
<b>Storage</b>	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.
<b>Uniprot No.</b>	Q96Q83
<b>Alias</b>	Alkylated DNA repair protein alkB homolog 3DEPC-1;Prostate cancer antigen 1
<b>Product Type</b>	Recombinant Protein
<b>Immunogen Species</b>	Homo sapiens (Human)
<b>Purity</b>	Greater than 90% as determined by SDS-PAGE.
<b>Sequence</b>	MEEKRRRRARVQGAWAAPVKSQAIAPATTAKSHLHQKPGQTWKNKEHHLSD REFVFKEPQQVVRRAPEPRVIEEGVYEISLSPTGVSRLVCLYPGFVDVKEADWIL EQLCQDVPWKQRTGIREDLSILQLTFKKSAPVSGTATAPQSCWYERPSPPHIPG PAILTRTRLWAP
<b>Research Area</b>	Epigenetics and Nuclear Signaling
<b>Source</b>	E.coli
<b>Target Names</b>	ALKBH3
<b>Expression Region</b>	1-170aa
<b>Notes</b>	Repeated freezing and thawing is not recommended. Store working aliquots at 4°C for up to one week.
<b>Tag Info</b>	N-terminal 6xHis-SUMO-tagged
<b>Mol. Weight</b>	35.3kDa
<b>Protein Length</b>	Full Length of Isoform 2
<b>Image</b>	



(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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