



Recombinant Human DNA dC->dU-editing enzyme APOBEC-3C (APOBEC3C)

Product Code	CSB-EP889097HU
Relevance	DNA deaminase (cytidine deaminase) which acts as an inhibitor of retrovirus replication and retrotransposon mobility via deaminase-dependent and -independent mechanisms. After the penetration of retroviral nucleocapsids into target cells of infection and the initiation of reverse transcription, it can induce the conversion of cytosine to uracil in the minus-sense single-strand viral DNA, leading to G-to-A hypermutations in the subsequent plus-strand viral DNA. The resultant detrimental levels of mutations in the proviral genome, along with a deamination-independent mechanism that works prior to the proviral integration, together exert efficient antiretroviral effects in infected target cells. Selectively targets single-stranded DNA and does not deaminate double-stranded DNA or single-or double-stranded RNA. Exhibits antiviral activity against simian immunodeficiency virus (SIV), hepatitis B virus (HBV), herpes simplex virus 1 (HHV-1) and Epstein-Barr virus (EBV) and may inhibit the mobility of LTR and non-LTR retrotransposons. May also play a role in the epigenetic regulation of gene expression through the process of active DNA demethylation.
Abbreviation	Recombinant Human APOBEC3C 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.	Q9NRW3
Product Type	Recombinant Proteins
Immunogen Species	Homo sapiens (Human)
Purity	≥ 90% as determined by SDS-PAGE.
Sequence	MNPQIRNPMKAMYPGTFYFQFKNLWEANDRDETWLCFTVEGIKRRSVVSWK TGVFRNQVDSETHCHAERCFLSWFCDDILSPNTKYQVTWYTSWSPCPDCAG EVAEFLARHSNVNLTIFTARLYYFQYPCYQEGRLRSLSQEGVAVEIMDYEDFKY CWENFVYNDNEPFKPKWKGLKTNFRLLKRRLRESLQ
Research Area	Epigenetics and Nuclear Signaling
Source	E.coli
Target Names	APOBEC3C
Protein Names	Recommended name: Probable DNA dC->dU-editing enzyme APOBEC-3C EC= 3.5.4.-Alternative name(s): APOBEC1-like Phorbolin I
Expression Region	1-190aa
Notes	Repeated freezing and thawing is not recommended. Store working aliquots at 4°C for up to one week.

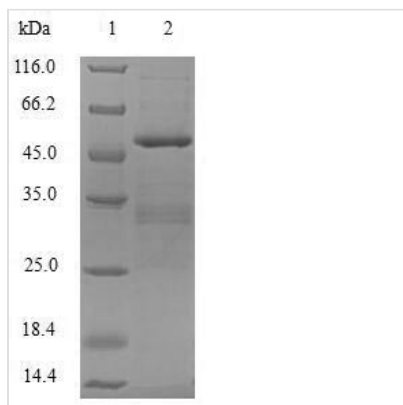


Tag Info N-terminal GST-tagged

Mol. Weight 49.8kDa

Protein Length Full Length of BC011739

Image



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

Shelf Life

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