Recombinant ABEC2 protein (His tag)

Catalog Number	548538
Synonyms	mRNA(cytosine(6666)) deaminase 2
Species	Human
Expression System	E. coli
Accession	Q9Y235
Molecular Weight	Predictes a molecular mass of 22.46 kDa. In SDS-PAGE under reducing conditions, it migrates as an approximately 23 kDa band.

Product Information

Sequence Region	46-224
Form	Lyophilized powder
Formulation	Lyophilized from sterile PBS, pH 7.4
Purity	>90%, by SDS-PAGE with Coomassie Brilliant Blue staining.
Endotoxin	Not tested.
Activity	Not tested.
Stability	Samples are stable for up to twelve months from date of receipt at -70℃
Protein Construction	DNA encoding 46-224 aa (Q9Y235) were fused with 6His tag.

Storage & Handling

Reconstitution	Reconstitute at 0.25 μg/μl in sterile water for short-term storage. Reconstitution with 50% glycerol solution is recommended for longer term storage (see Stability and Storage for more details). If a different concentration is needed for your purposes please adjust the reconstitution volume as required (please note: the ion concentration of the final solution will vary according to the volume used). Note: Centrifuge vial before opening. When reconstituting, gently pipet and wash down the sides of the vial to ensure full recovery of the protein into solution.
Storage	Store it under sterile conditions at -20℃ to -80℃. It is recommended that the protein be aliquoted for optimal storage. Avoid repeated freeze-thaw cycles.
Shipping	In general, recombinant proteins are provided as lyophilized powder which are shipped at ambient temperature. Bulk packages of recombinant proteins are provided as frozen liquid. They are shipped out with blue ice unless customers require otherwise.

Description

Description	Recombinant APOBEC2 Fragment (46-224) is a high-purity protein designed for studying the CMP/dCMP-type deaminase domain. This human-derived fragment enables targeted investigation of cytidine deaminase activity and its potential role in epigenetic regulation, offering researchers a precise tool for functional assays. APOBEC2 is a human C-to-U editing enzyme with intrinsic cytidine deaminase activity. While its physiological substrate remains unidentified, research indicates it does not edit apoB mRNA but may participate in active DNA demethylation processes, suggesting a role in epigenetic gene expression regulation. The protein's functional significance stems from its potential involvement in modifying nucleic acids, though subcellular localization data is currently unavailable. This recombinant fragment specifically isolates the catalytic deaminase domain to facilitate mechanistic studies of its biochemical activity.