Recombinant KDM4E protein (His tag)

Catalog Number	546389
Synonyms	KDM4D-like protein; Lysine-specific demethylase 4D-like; [histone H3]-trimethyl-L-lysine(9) demethylase 4E
Species	Human
Expression System	E. coli
Accession	B2RXH2
Molecular Weight	Predictes a molecular mass of 44.12 kDa. In SDS-PAGE under reducing conditions, it migrates as an approximately 44 kDa band.

Product Information

Sequence Region	1-370
Form	Lyophilized powder
Formulation	Lyophilized from sterile PBS, pH 7.4
Purity	>88%, 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 1-370 aa (B2RXH2) 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 Lysine-specific demethylase 4E (KDM4E) fragment (residues 1-370) is a high-purity protein designed for functional studies. This product encompasses the full JmjN and JmjC domains, enabling targeted investigation of histone H3 demethylation mechanisms in epigenetic research. Lysine-specific demethylase 4E (KDM4E) is a human histone demethylase that specifically catalyzes the demethylation of histone H3 at lysine 9 (H3K9), playing a central role in regulating the histone code and epigenetic signaling. The enzyme functions within the nucleus, where it contributes to chromatin remodeling and gene expression control through its demethylase activity. This recombinant fragment provides researchers with a defined tool to study domain-specific functions without interference from regulatory regions absent in this construct.