Recombinant KDM5D protein (His tag)

Catalog Number	548161
Synonyms	Histocompatibility Y antigen; H-Y; Histone demethylase JARID1D; Jumonji/ARID domain-containing protein 1D; Protein SmcY; [histone H3]-trimethyl-L-lysine(4) demethylase 5D
Species	Human
Expression System	E. coli
Accession	Q9BY66
Molecular Weight	Predictes a molecular mass of 21.31 kDa. In SDS-PAGE under reducing conditions, it migrates as an approximately 22 kDa band.

Product Information

Sequence Region	1-168
Form	Lyophilized powder
Formulation	Lyophilized from sterile PBS, pH 7.4
Purity	>89%, 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 1-168 aa (Q9BY66) 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 5D (KDM5D) fragment (residues 1-168) from Homo sapiens, encompassing the JmjN functional domain. This high-purity protein is an essential tool for investigating histone demethylase mechanisms, transcriptional regulation, and domain-specific functions in epigenetic research. Lysine-specific demethylase 5D (KDM5D) is a human histone demethylase that specifically targets trimethylated and dimethylated histone H3 at 'Lys-4', playing a central role in modifying the histone code and regulating gene expression. It localizes to the nucleus and is involved in transcriptional repression of metastasis-associated genes, suppression of prostate cancer cell invasion, and modulation of androgen receptor activity by removing active H3K4me3 transcription marks. KDM5D also contributes to spermatogenesis and cooperates with ZMYND8 in gene repression, highlighting its significance in epigenetic regulation and cancer biology.