

UTX/KDM6A recombinant protein

Recombinant UTX/KDM6A protein

CATALOG #
AAA59697

HOST
Baculovirus

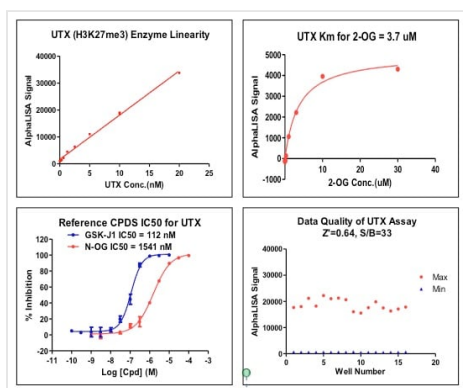
PRODUCT SYNONYMS

UTX/KDM6A; Recombinant UTX/KDM6A protein; KABUK2; bA386N14.2; UTX/KDM6A recombinant protein

PRODUCT SPECIFICATIONS

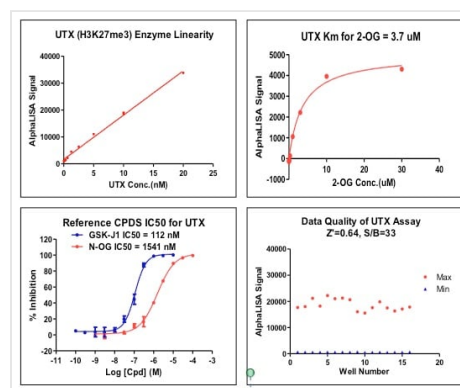
Host	Baculovirus
Form/Format	Full length recombinant UTX/KDM6A protein expressed in Sf9 cells and is supplied in 25mM HEPES-NaOH, pH7.5, 300mM NaCl, 10% glycerol, and 0.5mM TCEP.
Protein Species	Human
Tag	DYKDDDDK-Tag
Notes	This product was manufactured as described in Protein Details. Where possible, We has developed functional or activity assays for recombinant proteins. Additional characterization such as enzyme kinetic activity assays, inhibitor screening or other biological activity assays may not have been performed for every product. All available data for a given product is shown on the lot-specific Technical Data Sheet.
Dry Ice Note	The product may be shipped with dry ice, and an additional fee may be added to your shipping cost.
Preparation and Storage	Recombinant proteins in solution are temperature sensitive and must be stored at -80 degree C to prevent degradation. Avoid repeated freeze/thaw cycles and keep on ice when not in storage. Shipping Temp: Dry Ice

IMAGES



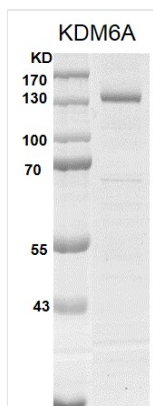
Application Data

HTRF assay for UTX / KDM6A activity 3 uM H3K27me3 peptide was incubated with different concentrations of UTX / KDM6A protein in a 10 ul reaction system containing 50 mM HEPES-NaOH pH 7.5, 1 mM TCEP, 50 uM 2-OG, 50 uM Ascorbate and 25 uM (NH4)2Fe(SO4)2·6H2O for 1 hr, then 10 ul of H3K27me2 antibody and SA-XL665 mixture (each 1:100 dilution in HTRF Detection Buffer) was added to each reaction system and incubated for 30 min. All the operations and reactions were performed at room temperature. HTRF assay was used for detection.



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SDS-PAGE

Recombinant UTX / KDM6A protein gel. UTX / KDM6A protein was run on a 10% SDS-PAGE gel and stained with Coomassie blue. MW: 158.8 kDa Purity: >70%

ADDITIONAL INFORMATION

Related Product Information for UTX/KDM6A recombinant protein

Short Description: Recombinant UTX/KDM6A (accession number NP_066963.2) was expressed in Sf9 cells and contains an N-terminal DYKDDDDK tag with an observed molecular weight of 158.8 kDa. KDM6A (lysine (K)-specific demethylase 6A), also known as UTX (Ubiquitously Transcribed Tetratricopeptide Repeat, X Chromosome) is a protein that functions as a histone demethylase that preferentially demethylates di- and trimethylated lysine 27 residues of histone H3, while it has no activity on monomethylated H3K27 residues. KDM6A plays a central role in posterior development by regulating HOX gene expression. Demethylation of lysine 27 is concomitant with methylation of lysine 4 of histone H3 and regulates the recruitment of the PRC1 complex and monoubiquitination of histone H2A. Recombinant UTX/KDM6A can be used for enzyme kinetics and inhibitor screening studies.

Background: KDM6A (lysine (K)-specific demethylase 6A), also known as UTX (Ubiquitously Transcribed Tetratricopeptide Repeat, X Chromosome) is a protein that functions as a histone demethylase that preferentially demethylates di- and trimethylated lysine 27 residues of histone H3, while it has no activity on monomethylated H3K27 residues. KDM6A plays a central role in posterior development by regulating HOX gene expression. Demethylation of lysine 27 is concomitant with methylation of lysine 4 of histone H3 and regulates the recruitment of the PRC1 complex and monoubiquitination of histone H2A.

Product Categories/Family for UTX/KDM6A recombinant protein

Recombinant Proteins; Histone Demethylase (HDM)

NCBI AND UNIPROT INFORMATION

Molecular Weight

Molecular weight of 158.8kDa

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

AAA Biotech | Tel: +1 (619) 604-9440 | Fax: +1 (619) 604-9441 | contact@aaabiotech.com
Online datasheet: <https://stage.aaabiotech.com/utx/kdm6a-recombinant-protein-baculovirus/59697>