Recombinant NSD1 protein (His tag)

Catalog Number	548003
Synonyms	Androgen receptor coactivator 267 kDa protein; Androgen receptor-associated protein of 267 kDa; H3-K36-HMTase; Lysine N-methyltransferase 3B; Nuclear receptor-binding SET domain-containing protein 1; NR-binding SET domain-containing protein
Species	Human
Expression System	E. coli
Accession	Q96L73
Molecular Weight	Predictes a molecular mass of 15.19 kDa. In SDS-PAGE under reducing conditions, it migrates as an approximately 15 kDa band.

Product Information

Sequence Region	319-431
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 319-431 aa (Q96L73) 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	This recombinant protein product features a 113-amino acid fragment (residues 319-431) of the human Histone-lysine N-methyltransferase NSD1, encompassing the PWWP 1 functional domain. It serves as a specialized tool for investigating the domain-specific mechanisms of H3 lysine-36 methylation and transcriptional regulation. The full-length NSD1 protein is a histone methyltransferase that dimethylates Lys-36 of histone H3 (H3K36me2), functioning as a transcriptional intermediary factor capable of both negative and positive regulation of transcription depending on cellular context. Located in the nucleus and associated with chromosomes, NSD1 plays a critical role in epigenetic regulation through histone modification, influencing gene expression patterns in various biological processes.