# Recombinant Human JMJD6 Protein, His-tagged

**Cat. No.** JMJD6-207H **Lot. No.** (See product label)

## SPECIFICATION

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| **Product Overview** | Recombinant Human JMJD6 Protein is produced by E. coli expression system. This protein is fused with a His tag. |
| **Species** | Human |
| **Source** | E.coli |
| **Description** | JMJD6 also known as bifunctional arginine demethylase and lysyl-hydroxylase JMJD6. JMJD6 acts as a lysyl-hydroxylase that catalyzes 5-hydroxylation on specific lysine residues of target proteins such as u2AF2/u2AF65 and LuC7L2, as a regulator of RNA splicing by mediating 5-hydroxylation of u2AF2/u2AF65, affecting the pre-mRNA splicing activity of u2AF2/u2AF65. In addition to peptidyl-lysine 5-dioxygenase activity, may act as an RNA hydroxylase, as suggested by its ability to bind single strand RNA. Also acts as an arginine demethylase which demethylates histone H3 at 'Arg-2' (H3R2me) and histone H4 at 'Arg-3' (H4R3me), thereby playing a role in histone code. Recombinant human JMJD6, fused to His-tag at N-terminus, was expressed in E. coli and purified by using conventional chromatography. |
| **Form** | Liquid, In Phosphate buffered saline (pH7.4) containing 30% glycerol, 1mM DTT |
| **Molecular Mass** | 50.0 kDa |
| **AA Sequence** | MGSSHHHHHH SSGLVPRGSH MGSMNHKSKK RIREAKRSAR PELKDSLDWT RHNYYESFSL SPAAVADNVE RADALQLSVE EFVERYERPY KPVVLLNAQE GWSAQEKWTL ERLKRKYRNQ KFKCGEDNDG YSVKMKMKYY IEYMESTRDD |

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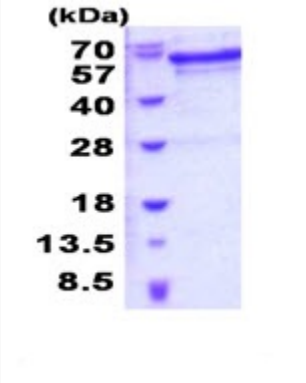
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|---|---|
| | SPLYIFDSSY GEHPKRRKLL EDYKVPKFFT DDLFQYAGEK RRPPYRWFVM GPPRSGTGIH IDPLGTSAWN ALVQGHKRWC LFPTSTPRELIKVTRDEGGN QQDEAITWFN VIYPRTQLPT WPPEFKPLEI LQKPGETVFV PGGWWHVVLN LDTTIAITQN FASSTNFPVV WHKTVRGRPK LSRKWYRILK QEHPELAVLA DSVDLQESTG |
| **Purity** | > 90% by SDS - PAGE |
| **Notes** | For research use only. This product is not intended or approved for human, diagnostics or veterinary use. |
| **Storage** | Can be stored at +2 centigrade to +8 centigrade for 1 week. For long term storage, aliquot and store at -20 centigrade to -80 centigrade. Avoid repeated freezing and thawing cycles. |
| **Concentration** | 0.5 mg/ml (determined by Bradford assay) |

## GENE INFORMATION

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| **Gene Name** | JMJD6 jumonji domain containing 6 [ Homo sapiens ] |
| **Official Symbol** | JMJD6 |
| **Synonyms** | JMJD6; jumonji domain containing 6; KIAA0585; PTDSR1; lysyl-hydroxylase JMJD6; PSR; PTDSR; |
| **Gene ID** | 23210 |
| **mRNA Refseq** | NM_001081461 |
| **Protein Refseq** | NP_001074930 |

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| **MIM** | 604914 |
| **UniProt ID** | Q6NYC1 |




3ug by SDS-PAGE under reducing condition and visualized by coomassie blue stain

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