

**JMJD6, 1-414aa, Human, His tag, E.coli**

**Cat.NO.: TP02708**

3th Edition

**Synonyms:**Bifunctional arginine demethylase and lysyl-hydroxylase JMJD6 isoform1, PSR, PTDSR, PTDSR1

**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 techniques.

**Form:**Liquid, In Phosphate buffered saline (pH7.4) containing 30% glycerol, 1mM DTT

**Molecular Weight:**50.0kDa (437aa)

**Sequences:**

MGSSHHHHHHSSGLVPRGSHMGSMNHKSKKRIREAKRSARPELKDSLWTRHNYYESFSLSPA AVADNVERADA  
LQLSVEEFVERYERPYKPVLLNAQEGWSAQEKWTLERLKRKYRNQKFKCGEDNDGYSVKMKMKYYIEYMESTR  
DDSPYIFDSSYGEHPKRRKLEEDYKVPKFFTDLDFQYAGEKRRPPYRWFVMGPPRSGTGIHIDPLGTSAWNALVQ  
GHKRWCLFPTSTPRELIKVTRDEGGNQQDEAITWFNVIYPRTQLPTWPPEFKPLEILQKPGETVFPVGGWWHVVLN  
LDTTIAITQNFASSTNFPVWHKTVRGRPKLSRKWYRILKQEHPELAVLADSVDLQESTGIASDSSSDSSSSSSSSSS  
SDSDSECEGSGSEGDTVHRRKKRRTCSMVGNGDTSQDDCVSKERSSSRIRDTCGGRAHP

**Purity:**> 95% by HPLC

**Concentration:**0.5 mg/ml (determined by Bradford assay)

**Endotoxin Level:**<1.0 EU per 1 ug of protein (determined by LAL method)

**Storage:**Can be stored at +4°C short term (1-2 weeks). For long term storage, aliquot and store at -20°C or -70°C. Avoid repeated freezing and thawing cycles.