9051 Mira Mesa Blvd, #910094
San Diego, CA 92191
Tel: 760-390-3989

JMJD6 Human

Jumonji Domain Containing 6 Human Recombinant
RCP1145

Product Overview

Name	JMJD6 Human
Description	
Jumonji Domain Containing 6 Human Recombinant	
Accession (Primary)	Q6NYC1
Synonyms	
Jumonji Domain Containing 6, Phosphatidylserine Receptor, Jumonji Domain-Containing Protein 6, Histone Arginine Demethylase JMJD6, Peptide-Lysine 5-Dioxygenase JMJD6, JmjC Domain-Containing Protein 6, Lysyl-Hydroxylase JMJD6, PTDSR, PSR, Bifunctional Arginine Demethylase And Lysyl-Hydroxylase JMJD6, Protein PTDSR, EC 1.14.11.-, EC 1.14.11, KIAA0585, PTDSR1, Bifunctional arginine demethylase and lysyl-hydroxylase JMJD6 (EC:1.14.11.-).	
Introduction	
Jumonji Domain Containing 6, also known as JMJD6 performs as a lysyl-hydroxylase which catalyzes 5-hydroxylation on specific lysine residues of target proteins for instance 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. Additionally to peptidyl-lysine 5-dioxygenase activity, JMJD6 performs as an RNA hydroxylase, as proposed by its ability to bind single strand RNA. Furthermore, it acts as an arginine demethylase which demethylates histone H3 at 'Arg-2' (H3R2me) as well as histone H4 at 'Arg-3' (H4R3me), thus taking a part in histone code.	
Source	
Escherichia Coli.	
Physical Appearance	
Sterile filtered colorless solution.	
Formulation	
JMJD6 protein solution (0.5mg/ml) containing Phosphate buffered saline (pH7.4), 30% glycerol and 1mM DTT.	
Stability	
Store at 4°C if entire vial will be used within 2-4 weeks. Store, frozen at -20°C for longer periods of time. For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA). Avoid multiple freeze-thaw cycles.	
Purity	

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Greater than 90% as determined by SDS-PAGE.

Amino acid sequence

MGSSHHHHHH SSGLVPRGSH MGS MNHKSKK RIREAKRSAR PELKDSLDWT RHNYYESFSL SPAAVADNVE RADALQLSVE EFVERYERPY KPVVLLNAQE GWSAQEKWTL ERLKRKYRNQ KFKCGEDNDG YSVKMKMKYY IEYMESTRDD SPLYIFDSSY GEHPKRRKLL EDYKVPKFFT DDLFQYAGEK RRPPYRWFVM GPPRSGTGIH IDPLGTSAWN ALVQGHKRWC LFPTSTPREL IKVTRDEGGN QQDEAITWFN VIYPRTQLPT WPPEFKPLEI LQKPGETVFV PGGWWHVVLN LDTTIAITQN FASSTNFPVV WHKTVRGRPK LSRKWYRILK QEHPELAVLA DSVDLQESTG IASDSSSDSS SSSSSSSSDS DSECESGSEG DGTVHRRKKR RTCSMVGNGD TTSQDDCVSK ERSSSRIRDT CGGRAHP.

Precautions

JMJD6 Human is for research use only and not for use in diagnostic or therapeutic procedures.

Target Information: (Q6NYC1)