
Product Data Sheet

Product Name: JMJD6 Human
 Cat. No.: GP23725
 Batch No.: 1

Product Data

Purity	>98%	Source	Escherichia Coli.
Physical Appearance	solid	Shipping Condition	Shipped with Ice Packs.
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.-).		
Amino Acid Sequence	<p>MGSSHHHHHSSGLVPRGSH MGSMNHKSKKRIREAKRSAR PELKDSL DWT RHNYYESFSL SPAAVADNVE RADALQLSVE EFVERYERPYPKVLLNAQE GWSAQEKWTLERLKRKYRNQ KFKCGEDNDG YSVKMKMKYY IEYMESTRDD SPLYIFDSSY GEHPKRRKLL EDYKVPKFFTDLDFQYAGEK RRPPYRWFVM GPPRSGTGIH IDPLGTSAWN ALVQGHKRWC LFPTSTPREL IKVTRDEGGNQQDEAITWFN VIYPRQLPT WPPEFKPLEI LQKPGETV FV PGGWWHVVLN LDTTIAITQN FASSTNFPV VWHKTVRGRPK LSRKWYRILK QEHP ELAVLA DSVDLQESTG IASDSSSDSS SSSSSSSSDS DSECEGSEGDGTVHRRKKR RTCSMVGN GD TTSQDDCVSK ERSSSRIRDT CGGRAHP.</p>		
Formulation	JMJD6 protein solution (0.5mg/ml) containing Phosphate buffered saline (pH7.4), 30% glycerol and 1mM DTT.		

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.

Caution: Product has not been fully validated for medical applications. For research use only.

Tel: (909) 407-4943 Fax: (626) 353-8530 E-mail: tech@glpbio.com

Address: 10292 Central Ave. #205, Montclair, CA, USA

Product Data Sheet

In addition 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.

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.

Background

JMJD6 Human Recombinant produced in E.Coli is a single, non-glycosylated polypeptide chain containing 437 amino acids (1-414 a.a) and having a molecular mass of 50.0kDa.

Caution: Product has not been fully validated for medical applications. For research use only.

Tel: (909) 407-4943 Fax: (626) 353-8530 E-mail: tech@glpbio.com

Address: 10292 Central Ave. #205, Montclair, CA, USA