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Recombinant human PTDSR/JMJD6 protein

Catalog Number: ATGP2999

PRODUCT INFORMATION

Expression system

E.coli

Domain

1-414aa

UniProt No.

O6NYC1

NCBI Accession No.

NP 001074930

Alternative Names

Jumonji domain containing 6, Arginine demethylase and lysine hydroxylase, Phosphatidylserine receptor, KIAA0585

PRODUCT SPECIFICATION

Molecular Weight

50kDa (437aa)

Concentration

0.5mg/ml (determined by Bradford assay)

Formulation

Liquid in. Phosphate-Buffered Saline (pH 7.4) containing 30% glycerol, 1mM DTT

Purity

> 90% by SDS-PAGE

Tag

His-Tag

Application

SDS-PAGE

Storage Condition

Can be stored at +2C to +8C for 1 week. For long term storage, aliquot and store at -20C to -80C. Avoid repeated freezing and thawing cycles.

BACKGROUND

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



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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.

Amino acid Sequence

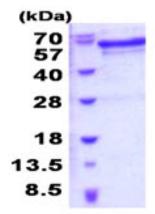
<MGSSHHHHHH SSGLVPRGSH MGS>MNHKSKK RIREAKRSAR PELKDSLDWT RHNYYESFSL SPAAVADNVE RADALQLSVE EFVERYERPY KPVVLLNAQE GWSAQEKWTL ERLKRKYRNQ KFKCGEDNDG YSVKMKMKYY IEYMESTRDD SPLYIFDSSY GEHPKRRKLL EDYKVPKFFT DDLFQYAGEK RRPPYRWFVM GPPRSGTGIH IDPLGTSAWN ALVQGHKRWC LFPTSTPREL IKVTRDEGGN QQDEAITWFN VIYPRTQLPT WPPEFKPLEI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

General References

Hong X. et al. (2010) Proc. Natl. Acad. Sci. u.S.A. 107:14568-14572. Webby C.J. et al. (2009) Science 325:90-93.

DATA





15% SDS-PAGE (3ug)

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

