

Recombinant human DPY30 protein

Catalog Number: ATGP2797

PRODUCT INFORMATION

Expression system

E.coli

Domain

1-99aa

UniProt No.

Q9C005

NCBI Accession No.

NP_115963

Alternative Names

protein dpy-30 homolog, HDPY-30, Saf19

PRODUCT SPECIFICATION

Molecular Weight

13.6 kDa (122aa) confirmed by MALDI-TOF

Concentration

1mg/ml (determined by Bradford assay)

Formulation

Liquid in. 20mM Tris-HCl buffer (pH 8.0) containing 0.2M NaCl, 30% glycerol, 2mM DTT

Purity

> 95% 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

As part of the MLL1/MLL complex, DPY30 is involved in the methylation of histone H3 at 'Lys-4', particularly trimethylation. Histone H3 'Lys-4' methylation represents a specific tag for epigenetic transcriptional activation. This protein may play some role in histone H3 acetylation. In a teratocarcinoma cell, it plays a crucial role in retinoic acid-induced differentiation along the neural lineage, regulating gene induction and H3 'Lys-4' methylation at key developmental loci. DPY30 may also play an indirect or direct role in endosomal transport. Recombinant human DPY30 protein, fused to His-tag at N-terminus, was expressed in E. coli and purified by

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using conventional chromatography techniques.

Amino acid Sequence

MGSSHHHHHH SSSLVPRGSH MGSMEPEQML EGQTQVAENP HSEYGLTDNV ERIVENEKIN AEKSSKQKVD LQSLPTRAYL
DQTVVPILLQ GLAVLAKERP PNPIEFLASY LLKNKAQFED RN

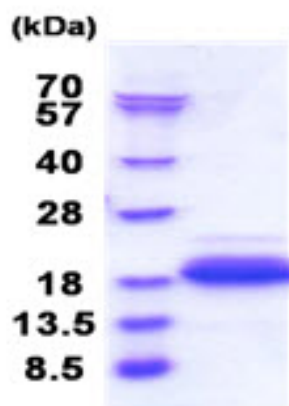
General References

Xu Z., et al (2009). J. Cell Biol. 186:343-353

Patel A., et al (2009). J. Biol. Chem. 284:24242-24256

DATA

SDS-PAGE



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

15% SDS-PAGE (3ug)