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

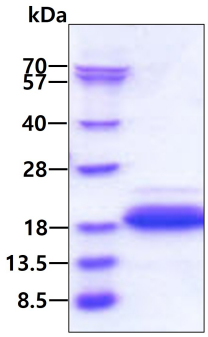
<MGSSHHHHHH SSGLVPRGSH MGS>MEPEQML EGQTQVAENP HSEYGLTDNV ERIVENEKIN AEKSSKQKVD LQSLPTRAYL DQTVVPILLQ GLAVLAKERP PNPIEFLASY LLKNKAQFED RN

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.