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## Product Data Sheet

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Product Name: DPY30 Human  
 Cat. No.: GP23338  
 Batch No.: 1

### Product Data

|                     |   |                    |                         |
|---------------------|---|--------------------|-------------------------|
| Purity              | >98%  | Source             | Escherichia Coli.       |
| Physical Appearance | solid   | Shipping Condition | Shipped with Ice Packs. |
| Synonyms            | Dpy-30 Homolog (C. Elegans); Dpy-30-Like Protein; Dpy-30L; Protein Dpy-30 Homolog; HDPY-30; Cps25; Saf19; Protein dpy-30 homolog.     |                    |                         |
| Amino Acid Sequence | MGSSHHHHHH SGLVPRGSH MGSMEPEQML EGQTQVAENP HSEYGLTDNV ERIVENEKIN AEKSSKQKVDLQSLPTRAYL DQTVVPILLQ GLAVLAKERP PNPIEFLASY LLKNKAQFED RN. |                    |                         |
| Formulation         | DPY30 protein solution (1mg/ml) containing 20mM Tris-HCl buffer (pH 8.0), 0.2M NaCl, 30% glycerol and 2mM DTT.                        |                    |                         |

### Introduction

DPY30 is implicated in the methylation of histone H3 at Lys-4, mainly trimethylation. Histone H3 Lys-4 methylation symbolize a specific tag for epigenetic transcriptional activation. DPY30 takes part in histone H3 acetylation. In a teratocarcinoma cell, DPY30 plays a critical role in retinoic acid-induced differentiation along the neural lineage, regulating gene induction and H3 Lys-4 methylation at key developmental loci. DPY30 also plays an indirect or direct part in endosomal transport.

### 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

DPY30 Human Recombinant produced in E. Coli is a single, non-glycosylated polypeptide chain containing 122 amino acids (1-99 a.a) and having a molecular mass of 13.6 kDa. DPY30 is fused to a 23 amino acid His-tag at N-terminus & purified by proprietary chromatographic techniques.

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

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