

# Recombinant Human PRMT3 Protein

Catalog No.: RP03239 **Recombinant**

## Sequence Information

Species	Gene ID	Swiss Prot
Human	10196	O60678

### Tags

N-GST

### Synonyms

PRMT3; HRMT1L3

## Product Information

Source	Purification
<i>E. coli</i>	> 70% by SDS-PAGE.

Calculated MW	Observed MW
85.7 kDa.	90 kDa.

### Endotoxin

Please contact us for more information.

### Formulation

Lyophilized from a 0.22 µm filtered solution of 20mM Tris, 150mM NaCl, 0.5mM GSH, pH 7.0. Contact us for customized product form or formulation.

### Reconstitution

Centrifuge the vial before opening. Reconstitute to a concentration of 0.1-0.5 mg/mL in sterile distilled water. Avoid vortex or vigorously pipetting the protein. For long term storage, it is recommended to add a carrier protein or stabilizer (e.g. 0.1% BSA, 5% HSA, 10% FBS or 5% Trehalose), and aliquot the reconstituted protein solution to minimize free-thaw cycles.

## Contact

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## Background

Protein arginine methyltransferase 3, also known as PRMT3, is one of four type I protein arginine methyltransferases (PRMT) that in humans is encoded by the PRMT3 gene. Methylation of arginine residues is a widespread post-translational modification of proteins catalyzed by a small family of PRMTs. The modification appears to regulate protein functions and interactions that affect gene regulation, signalling and subcellular localization of proteins and nucleic acids. In human cells, the PRMT family consists of eight canonical members. PRMTs have been classified into two groups based on the end product. Certain PRMTs display different subcellular localization in different cell types, implicating cell- and tissue-specific mechanisms for regulating PRMT functions. PRMT3 is unique in that its N-terminus harbours a C2H2 zinc-finger domain that is proposed to confer substrate specificity. Besides, PRMT3 is the only type I enzyme that is restricted to the cytoplasm. A large proportion of this cytosolic PRMT3 is found associated with ribosomes. It is tethered to the ribosomes through its interaction with rpS2, which is also its substrate.

## Basic Information

### Description

Recombinant Human PRMT3 Protein is produced by *E. coli* expression system. The target protein is expressed with sequence (Cys2-Gln531) of Human PRMT3 (Accession #NP\_005779.1) fused with GST tag at the N-terminus.

### Bio-Activity

### Storage

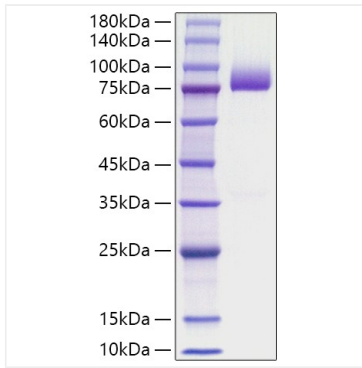
Store the lyophilized protein at -20°C to -80°C for 12 months.

After reconstitution, the protein solution is stable at -20°C for 3 months, at 2-8°C for up to 1 week.

Avoid repeated freeze/thaw cycles.

## Validation Data

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Recombinant Human PRMT3 Protein was determined by SDS-PAGE with Coomassie Blue, showing a band at 80-90 kDa.