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# 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 |
|---|---|
| *E. coli* | ≥ 65 % as determined 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 stablizer (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 cystosolic 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**

**Shipping**
The product is shipped at ambient temperature. Upon receipt, store it immediately at the temperature recommended below.

**Storage**
Store at -20℃.Store the lyophilized protein at -20℃ to -80 ℃ up to 1 year from the date of receipt.
After reconstitution, the protein solution is stable at -20℃ for 3 months, at 2-8℃ for up to 1 week.
Avoid repeated freeze/thaw cycles.

**Operational Notes**
For your safety and health, please wear a lab coat and disposable gloves for handling.

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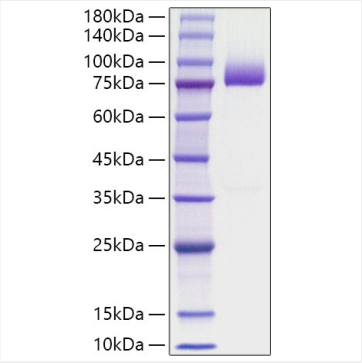
## Validation Data




Recombinant Human PRMT3 Protein was determined by SDS-PAGE under reducing conditions with Coomassie Blue.



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