

Recombinant Human PRMT3 Protein

Catalog No.: RP03239

Sequence Information

Species **Gene ID**
Human 10196

Swiss Prot **Tags**
O60678 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 stabilizer
(e.g. 0.1% BSA, 5% HSA, 10% FBS
or 5% Trehalose), and aliquot the
reconstituted protein solution to
minimize free-thaw cycles.

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.

Activity

Shipping

Lyophilized proteins are shipped at ambient temperature.
Liquid proteins are shipped at frozen temperature with dry ice.
Upon receipt, store it immediately at the temperature recommended below.

Storage

Store at -20°C

Operational Notes

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

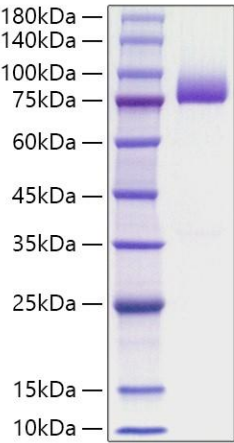
Contact

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Validation Data



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