

Recombinant human PRMT1 protein (Active) ab198122

2 Images

Description

Product name	Recombinant human PRMT1 protein (Active)		
Biological activity	<p>Specific Activity: 6.2 pmol/min/μg.</p> <p>Assay Conditions: 50 μl reaction mix (20 mM phosphate buffer pH 7.4, 20 μM S-adenosyl methionine, and 1-5 ng ab198122 add to the wells coated with the substrate. Incubate at room temperature for 1 hr. Add antibody against methylated R3 residue of histone H4, incubate 1 hr. Add secondary HRP-labeled antibody and incubate 30 min. Finally, add HRP chemiluminescent substrates and read luminesence.</p>		
Purity	<p>>= 68 % SDS-PAGE.</p> <p>Affinity purified.</p>		
Expression system	Baculovirus infected Sf9 cells		
Accession	<u>NM_001536</u>		
Protein length	Full length protein		
Animal free	No		
Nature	Recombinant		
Species	Human		
Sequence	AAAEAANCIMENFVATLANGMSLQPPLEEVSCGQAESSE KPNAEDMTSKD YYFDSYAHFGIHEEMLKDEVRTLTYRNSMFHNRHLFKDKV VLDVGSGTGI LCMFAAKAGARKVIGIECSSISDYAVKIVKANKLDHVVTIIG KVEEVEL PVEKVDIISEWMGYCLFYESMLNTVLYARDKWLPDGLIF PDRATLYVT AIEDRQYKDYKIHWWENVYGFDMSCKDVAIKEPLVDVVD PKQLVTNACL IKEVDIYTVKVEDLTFTSPFCLQVKRNDYVHALVAYFNIEFT RCHKRTGF STSPESPYTHWKQTVFYMEDYLT VKTGEEIFGTIGMRPNA KNNRDLDFITLDLDFKGQLCELSCSTDYRMR		
Predicted molecular weight	68 kDa including tags		
Amino acids	2 to 371		
Tags	GST tag N-Terminus		

Specifications

Our **Abpromise guarantee** covers the use of **ab198122** in the following tested applications.

The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

Applications	Functional Studies
	SDS-PAGE
Form	Liquid

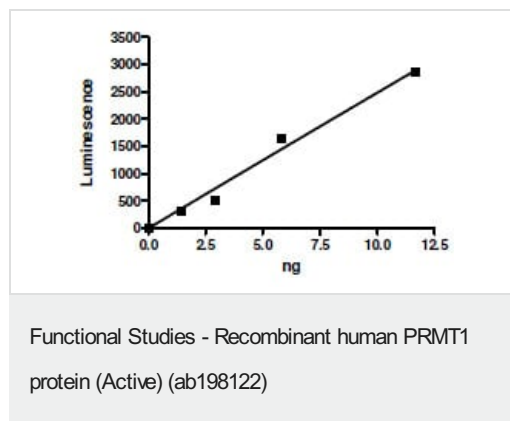
Preparation and Storage

Stability and Storage	Shipped on Dry Ice. Store at -80°C. Avoid freeze / thaw cycle.
	pH: 8.00
	Constituents: 0.63% Tris HCl, 1.74% Sodium chloride, 20% Glycerol (glycerin, glycerine), 0.02% (R*,R*)-1,4-Dimercaptobutan-2,3-diol
	This product is an active protein and may elicit a biological response in vivo, handle with caution.

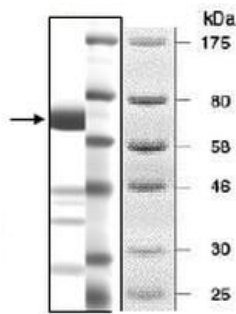
General Info

Function	Arginine methyltransferase that methylates (mono and asymmetric dimethylation) the guanidino nitrogens of arginyl residues present in proteins such as ESR1, histone H2, H3 and H4, PIAS1, HNRNPA1, HNRNPD, NFATC2IP, SUPT5H, TAF15 and EWS. Constitutes the main enzyme that mediates monomethylation and asymmetric dimethylation of histone H4 'Arg-4' (H4R3me1 and H4R3me2a, respectively), a specific tag for epigenetic transcriptional activation. Together with dimethylated PIAS1, represses STAT1 transcriptional activity, in the late phase of interferon gamma (IFN-gamma) signaling. May be involved in the regulation of TAF15 transcriptional activity, act as an activator of estrogen receptor (ER)-mediated transactivation, play a key role in neurite outgrowth and act as a negative regulator of megakaryocytic differentiation, by modulating p38 MAPK pathway.
Tissue specificity	Widely expressed.
Sequence similarities	Belongs to the protein arginine N-methyltransferase family.
Cellular localization	Nucleus. Cytoplasm > cytosol.

Images



Activity assay using ab198122.



10% SDS-PAGE analysis of 1.5 µg ab198122 with Coomassie staining.

SDS-PAGE - Recombinant human PRMT1 protein
(Active) (ab198122)

Please note: All products are "FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC PROCEDURES"

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