Datasheet for ABIN1047576

PRMT1 Protein (AA 1-248, partial) (GST tag)

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Overview

Quantity:	100 µg
Target:	PRMT1
Protein Characteristics:	AA 1-248, partial
Origin:	Human
Source:	Escherichia coli (E. coli)
Protein Type:	Recombinant
Purification tag / Conjugate:	This PRMT1 protein is labelled with GST tag.
Application:	SDS-PAGE (SDS), ELISA

Product Details

Sequence:	MAAAEAANCI MENFVATLAN GMSLQPPLEE VSCGQAESSE KPNAEDMTSK DYYFDSYAHF GIHEEMLKDE VRTLTYRNSM FHNRHLFKDK VVLDVGSGTG ILCMFAAKAG ARKVIGIECS SISDYAVKIV KANKLDHVVT IIKGKVEEVE LPVEKVDIII SEWMGYCLFY ESMLNTVLYA RDKWLAPDGL IFPDRATLYV TAIEDRQYKD YKIHWWENVY GFDMSCIKDV AIKEPLVDVV DPKQLVTN
Characteristics:	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

Product Details

	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. Ref.9 Ref.10 Ref.11 Ref.13 Ref.14 Ref.15 Ref.16 Ref.17 Ref.18 Ref.19
Purity:	90 %

Target Details

Target:	PRMT1
Alternative Name:	Protein arginine N-methyltransferase 1 (PRMT1 Products)
Background:	Synonyms: Histone-arginine N-methyltransferase PRMT1,Interferon receptor 1-bound protein 4
Molecular Weight:	55.4 kD
UniProt:	Q99873

Application Details

Comment:	Repeated freezing and thawing is not recommended. Store working aliquots at 4°C for up to one week.
Restrictions:	For Research Use only

Handling

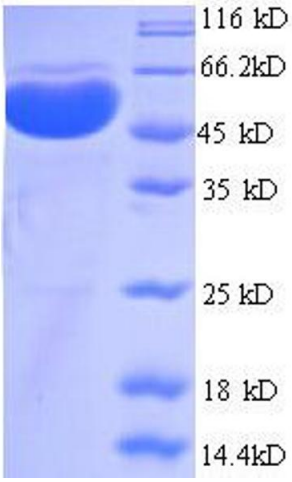
Format:	Lyophilized
Buffer:	6M guanidine hydrochloride, 20mM Tris
Storage:	-20 °C

Publications

Product cited in:	Dietz, Neibergs, Womack, Kehrli: "Rapid communication: single strand conformational polymorphism (SSCP) of bovine tumor necrosis factor alpha." in: **Journal of animal science**, Vol. 75, Issue 9, pp. 2567, (1997) (PubMed). Mertens, Muriuki, Gaidulis: "Cloning of two members of the TNF-superfamily in cattle: CD40 ligand and tumor necrosis factor alpha." in: **Immunogenetics**, Vol. 42, Issue 5, pp. 430-1, (1995) (PubMed).

Publications

Images



SDS-PAGE

Image 1.