# abcam

## Product datasheet

# Methylstat, jumonji C domain-containing histone demethylase inhibitor ab 144566

1 References 2 Images

Overview

Product name Methylstat, jumonji C domain-containing histone demethylase inhibitor

**Description** Selective Jumonji C domain-containing histone demethylase inhibitor

**Purity** > 90%

**CAS Number** 1310877-95-2

**Chemical structure** 

**Properties** 

**Chemical name** (2*E*)-4-[Hydroxy[4-[[[4-[[[(1-

naphthalenylamino)carbonyl]oxy]methyl]phenyl]methyl]amino]butyl]amino]-4-oxo-2-butenoic acid

methyl ester

Molecular weight 505.57

Molecular formula  $C_{28}H_{31}N_3O_6$ 

PubChem identifier 53392493

**Storage instructions** Store at +4°C. It is important to note that this product is reported to be light sensitive. Store under

desiccating conditions. The product can be stored for up to 12 months.

**Solubility overview** Soluble in DMSO to 100 mM

**Handling** Wherever possible, you should prepare and use solutions on the same day. However, if you need

to make up stock solutions in advance, we recommend that you store the solution as aliquots in tightly sealed vials at -20 $^{\circ}$ C. Generally, these will be useable for up to one month. Before use, and

prior to opening the vial we recommend that you allow your product to equilibrate to room

temperature for at least 1 hour.

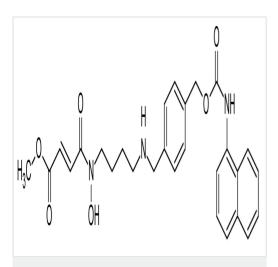
Need more advice on solubility, usage and handling? Please visit our frequently asked

questions (FAQ) page for more details.

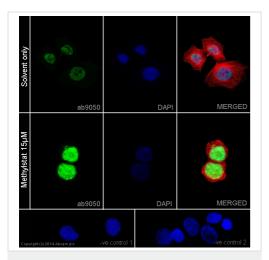
**SMILES** COC(=0)/C=C/C(=0)N(CCCCNCC1=CC=C(C=C1)COC(=0)NC2=CC=CC3=CC=C32)O

1

### **Images**



Chemical Structure - Methylstat, jumonji C domaincontaining histone demethylase inhibitor (ab144566) 2D chemical structure image of ab144566, Methylstat, jumonji C domain-containing histone demethylase inhibitor



Functional Studies - Methylstat, jumonji C domaincontaining histone demethylase inhibitor (ab144566) ab9050 staining Histone H3 (tri methyl K36) in MCF-7 cells. The cells were incubated with 15μM Methylstat (ab144566) for 24 hours (Treated) or solvent-only for control purposes (Non-treated). Cells were fixed with 100% methanol (5min) and then blocked in 1% BSA/10% normal goat serum/0.3M glycine in 0.1%PBS-Tween for 1h. The cells were then incubated with ab9050 at 0.1μg/ml and ab195889 Mouse monoclonal [DM1A] to alpha Tubulin - Alexa Fluor® 594 at 2μg/ml (shown in pseudo colour red) overnight at +4°C, followed by a further incubation at room temperature for 1h with an AlexaFluor®488 Goat anti-Rabbit secondary (ab150081) at 1/1000 dilution (shown in green). Nuclear DNA was labelled in blue with DAPI. Negative controls: 1– anti-rabbit secondary only (solvent only); 2 – anti-rabbit secondary only (Treated). The secondary antibody control demonstrates that the labelling observed is due only to the binding of the secondary antibody to the primary antibody

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

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