

Hello Bio, Inc.  
304 Wall St., Princeton, NJ 08540 USA

T. 609-683-7500  
F. 609-228-4994

customercare-usa@hellobio.com



## DATASHEET

RG 108

### Product overview

<b>Name</b>	RG 108
<b>Cat No</b>	HB1377
<b>Description</b>	Non-nucleoside DNA methyltransferase inhibitor. Enhances iPSC generation efficiency.
<b>Biological action</b>	Inhibitor
<b>Purity</b>	>99%

### Biological Data

<b>Biological description</b>	Non-nucleoside DNA methyltransferase (DNMT) inhibitor ( $IC_{50} = 115$ nM). Binds at the active site. Causes hypomethylation and reactivates tumor suppressor genes. Shows growth inhibiting and pro-apoptotic anti-cancer actions. Also enhances iPSC generation efficiency.
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### Solubility & Handling

<b>Storage instructions</b>	Room temperature
<b>Solubility overview</b>	Soluble in DMSO (100mM) or ethanol (100mM)
<b>Important</b>	This product is for RESEARCH USE ONLY and is not intended for therapeutic or diagnostic use. Not for human or veterinary use.

### Chemical Data

<b>Chemical name</b>	<i>N</i> -Phthalyl-L-tryptophan
<b>Molecular Weight</b>	334.33
<b>Chemical structure</b>	

<b>Molecular Formula</b>	$C_{19}H_{14}N_2O_4$
<b>CAS Number</b>	48208-26-0
<b>PubChem identifier</b>	702558
<b>SMILES</b>	<chem>O=C(C(C=CC=C4)=C4C3=O)N3[C@H](C(O)=O)CC2=CNC1=CC=CC=C12</chem>
<b>InChIKey</b>	HPTXLHAHLXOAKV-INIZCTEOSA-N

### References

#### Epigenetic reactivation of tumor suppressor genes by a novel small-molecule inhibitor of human DNA methyltransferases.

Brueckner B *et al* (2005) Cancer Res 65(14)

**PubMedID** [16024632](https://pubmed.ncbi.nlm.nih.gov/16024632/)

**Anti-tumoral effect of the non-nucleoside DNMT inhibitor RG108 in human prostate cancer cells.**

Graña I *et al* (2014) *Curr Pharm Des* 20(11)

**PubMedID** [23888969](#)

**Functional diversity of DNA methyltransferase inhibitors in human cancer cell lines.**

Stresemann C *et al* (2006) *Cancer Res* 66(5)

**PubMedID** [16510601](#)

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