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DATASHEET

RG 108

Product overview

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

Biological Data

Biological description	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

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

Chemical Data

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

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