



LKT Laboratories, Inc.

RG-108

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Product Information

Product ID R2400

CAS No. 48208-26-0

Chemical Name

Synonym

Formula $C_{19}H_{14}N_2O_4$

Formula Wt. 334.33

Melting Point

Purity $\geq 98\%$

Solubility DMSO 67 mg/mL (200mM)

Ethanol 67 mg/mL

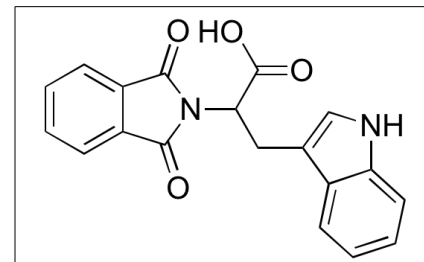
(200mM)

Water Insoluble

Store Temp -20°C

Ship Temp Ambient

Description RG-108 is an inhibitor of DNA methyltransferases (DNMTs) that exhibits antidepressant, neuromodulatory, anticancer, and antiepileptic activities. RG-108 attenuates stress-induced behavioral adaptations in animal models and inhibits persistent epileptiform activity. RG-108 also increases TERT expression. In prostate cancer cells, this compound induces apoptosis and inhibits cell growth.



Bulk quantities available upon request

Product ID	Size
R2400	5 mg
R2400	10 mg
R2400	25 mg

References Sales AJ, Joca SR. Effects of DNA methylation inhibitors and conventional antidepressants on mice behaviour and brain DNA methylation levels. *Acta Neuropsychiatr.* 2015 Jun 26;1-12. PMID: 26112212.

Oh YS, Jeong SG, Cho GW. Anti-senescence effects of DNA methyltransferase inhibitor RG108 in human bone marrow mesenchymal stromal cells. *Biotechnol Appl Biochem.* 2015 May 8. [Epub ahead of print]. PMID: 25952632.

Graça I, Sousa EJ, Baptista T, et al. Anti-tumoral effect of the non-nucleoside DNMT inhibitor RG108 in human prostate cancer cells. *Curr Pharm Des.* 2014;20(11):1803-11. PMID: 23888969.

Machnes ZM, Huang TC, Chang PK, et al. DNA methylation mediates persistent epileptiform activity in vitro and in vivo. *PLoS One.* 2013 Oct 2;8(10):e76299. PMID: 24098468.

Caution: This product is intended for laboratory and research use only. It is not for human or drug use.