



LKT Laboratories, Inc.

RG-108

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Product Information

Product ID R2400

CAS No. 48208-26-0

Chemical Name N-Phthalyl-L-tryptophan

Synonym

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

Formula Wt. 334.33

Melting Point

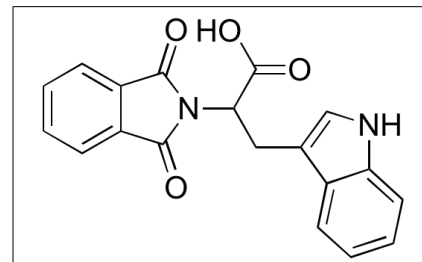
Purity $\geq 98\%$

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.



Pricing and Availability

Bulk quantities available upon request

Product ID	Size	List Price
R2400	5 mg	\$86.00
R2400	10 mg	\$150.30
R2400	25 mg	\$314.90

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.