

**Catalog # 10-2546**

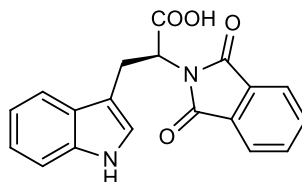
**RG-108**

CAS# 48208-26-0

N-Phthalyl-L-tryptophan

(S)-2-(1,3-dioxisoindolin-2-yl)-3-(1H-indol-3-yl)propanoic acid

Lot # X105327



A non-nucleoside DNA methyltransferase inhibitor.  $IC_{50}=115 \text{ nM}^1$  Inhibits DNA methylation in human tumor cell lines without toxicity<sup>2</sup>. Enhances the reversion of neural progenitor cells to the pluripotent state<sup>3</sup>.

- 1) Brueckner *et al.* (2005), *Epigenetic reactivation of tumor suppressor genes by a novel small-molecule inhibitor of human DNA methyltransferase*; *Cancer Res.*, **65** 6305
- 2) Stresemann *et al.* (2006), *Functional diversity of DNA methyltransferase inhibitors in human cancer cell lines*; *Cancer Res.*, **66** 2794
- 3) Szablowska-Gadomska *et al.* (2012), *Treatment with small molecules is an important milestone towards the induction of pluripotency in neural stem cells derived from human cord blood*; *Acta Neurobiol. Exp.*, **72** 337

### **PHYSICAL DATA**

Molecular Weight: 334.34  
Molecular Formula:  $C_{19}H_{14}N_2O_4$   
Purity: >98% (TLC); NMR (Conforms)  
Solubility: May be dissolved in DMSO (100 mg/ml); or Ethanol (100 mg/ml)  
Physical Description: Tan powder  
Storage and Stability: Store desiccated as supplied at ambient temperature for up to 2 years. Store solutions at  $-20^{\circ}\text{C}$  for up to 1 month.

**Materials provided by Focus Biomolecules are for laboratory research use only and are not intended for human or veterinary applications.**