

Cat No. 41-L99

RG108

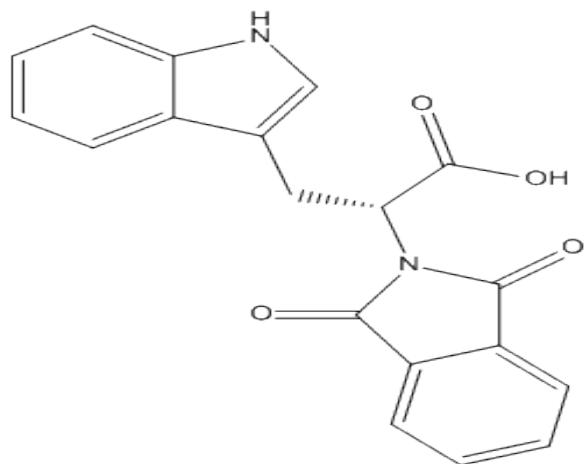
10 mg



For research purposes only

RG108 is a potent and specific DNA methyltransferase (DNMT) inhibitor. It causes demethylation and reactivation of tumor suppressor genes and can be used to enhance reprogramming. RG108 has been found to inhibit human tumor cell line proliferation and increases doubling time in culture.

TECHNICAL INFORMATION



Other Names: 2-(1,3-Dioxo-1,3-dihydro-2H-isoindol-2-yl)-3-(1H-indol-3-yl)propionic acid, N-Phthalyl-L-tryptophan

Chemical Formula: C₁₉H₁₄N₂O₄

CAS Number: 48208-26-0

PubChem Substance ID: 24724594

Molecular Weight: 334.44

Purity: ≥98% by HPLC

Appearance: yellow solid

Solubility: DMSO >10 mg/ml

IC₅₀ : 115nM

STORAGE AND HANDLING

Storage: Store at 4°C and protected from light. Following reconstitution, store aliquots at -20°C.

Stability: Stock solutions stable at -20°C for up to 2 years.

Shipping Conditions: Shipped at room temperature.

PRODUCT USE

RG108 is soluble in DMSO. For a 10mM concentrated stock solution, reconstitute by adding 2990µl of DMSO to the contents of the vial. For most cells, the maximum tolerance to DMSO is less than 0.5%.

REFERENCES

1. Brueckner et al. (2005) Epigenetic reactivation of tumor suppressor genes by a novel small-molecule inhibitor of Human DNA methyltransferases. *Cancer Res.* 65:6305.
2. Stresemann et al. (2006) Functional diversity of DNA methyltransferase inhibitors in human cancer cell lines. *Cancer Res.* 66:2794.