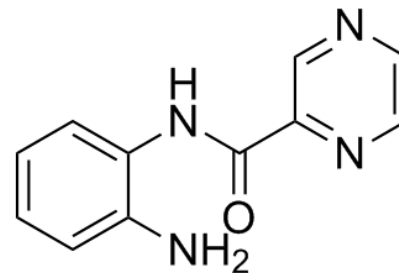


Product Name : BG-45
Cat. No. : PC-45538
CAS No. : 926259-99-6
Molecular Formula : C₁₁H₁₀N₄O
Molecular Weight : 214.2233
Target : HDAC
Solubility : DMSO: ≥ 48 mg/mL



Biological Activity

BG-45 (BG45) is a potent and selective HDAC3 inhibitor with IC₅₀ of 289 nM, shows selectivity over HDAC1 and HDAC2. BG-45 downregulates phosphorylation (Tyr705 and Ser727) of STAT3 and triggers hyperacetylation of STAT3 in MM cells. BG-45 significantly enhances bortezomib-induced cytotoxicity. BG-45 exhibits significant tumor growth inhibition in vivo in a murine xenograft model of human MM.

References

- Minami J, et al. *Leukemia*. 2014 Mar;28(3):680-9.
Harada T, et al. *Leukemia*. 2017 May 11. doi: 10.1038/leu.2017.144.

Caution: Product has not been fully validated for medical applications. Lab Use Only!

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