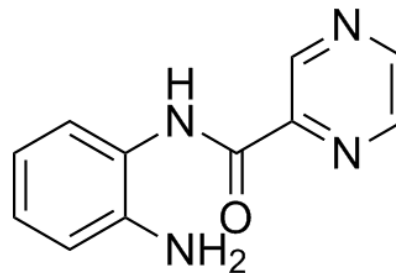


**Product Name** : HDAC3 inhibitor BG45  
**Cat. No.** : PC-45538  
**CAS No.** : 926259-99-6  
**Molecular Formula** : C<sub>11</sub>H<sub>10</sub>N<sub>4</sub>O  
**Molecular Weight** : 214.2233  
**Target** : HDAC  
**Solubility** : DMSO: ≥ 48 mg/mL



### Biological Activity

HDAC3 inhibitor BG45 (BG45) is a potent and selective **HDAC3** inhibitor with IC<sub>50</sub> of 289 nM, shows selectivity over HDAC1 and HDAC2.

BG45 downregulates phosphorylation (Tyr705 and Ser727) of STAT3 and triggers hyperacetylation of STAT3 in MM cells.

BG45 significantly enhances bortezomib-induced cytotoxicity.

BG45 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!**

E-mail: tech@probechem.com