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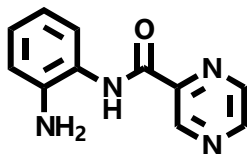
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HDAC3 Inhibitor – BG45

Chemical Name: N-(2-aminophenyl)pyrazine-2-carboxamide



Molecular Weight:	214.22
Formula:	C ₁₁ H ₁₀ N ₄ O
Purity:	≥98%
CAS#:	926259-99-6
Solubility:	DMSO up to 100 mM
Storage	Powder: 4 °C 1 year DMSO: 4 °C 3 months -20 °C 1 year

Biological Activity:

BG45 is a potent, selective and cell permeable HDAC3 inhibitor. It inhibits HDAC3 with IC₅₀ of 289 nM. It has IC₅₀ of 2.0 μM, 2.2 μM and >20 μM for HDAC1, HDAC2, and HDAC6 in cell-free assays, respectively. BG45 triggers significant MM cell growth inhibition via apoptosis, evidenced by caspase and poly (ADP-ribose) polymerase cleavage. BG45 alone and in combination with bortezomib triggers significant tumor growth inhibition in vivo in a murine xenograft model of human MM.

How to Use:

In vitro: BG45 was used at 10 μM final concentration in various in vitro assays.

In vivo: BG45 was dosed to mice bearing MM.1S xenograft by IP injection at 50 mg/kg (5 days a week), significantly inhibits MM tumor growth. (Formulation: 10% dimethylacetamide in 10% Kolliphor HS15 in PBS)

Reference:

1. Minami J., et al. Histone deacetylase 3 as a novel therapeutic target in multiple myeloma. (2014) Leukemia. 28(3): 680-9.

Products are for research use only. Not for human use.