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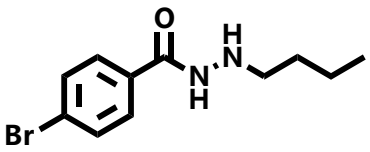
HDAC Inhibitor – UF010

Chemical Name: 4-bromo-N'-butylbenzohydrazide



Molecular Weight:	271.15
Formula:	$C_{11}H_{15}BrN_2O$
Purity:	≥98%
CAS#:	537672-41-6
Solubility:	DMSO up to 100 mM
Storage	Powder: 4°C 1 year DMSO: 4°C 3 month -20°C 1 year

Biological Activity:

UF010 is a potent and selective class I HADC inhibitor with IC_{50} ~0.06 μM, 0.1 μM, 0.5 μM and 1.5 μM for HDACs 3, 2, 1 and 8, respectively. It has >6-fold selectivity over other HDACs, and is a competitive inhibitor with a fast-on/slow-off HDAC-binding mechanism. UF010 induces accumulation of acetylated histones in HCT116 cells in vitro, arrests cells at G1/S transition. It inhibits proliferation of a range of cancer cell lines.

How to Use:

In vitro: UF010 was used at 5-10 μM final concentration in vitro and in cellular assays.

In vivo: n/a

Reference:

1. Wang Y, et al. Identification of histone deacetylase inhibitors with benzoylhydrazide scaffold that selectively inhibit class I histone deacetylases. (2015) Chem Biol. 22(2):273-84.