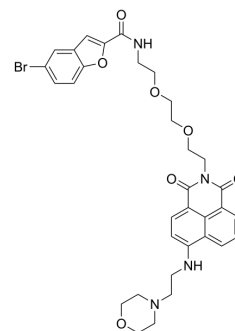


NDBM

Cat. No.:	HY-155717
CAS No.:	2958641-42-2
Molecular Formula:	C ₃₃ H ₃₅ BrN ₄ O ₇
Molecular Weight:	679.56
Target:	Autophagy; Pim
Pathway:	Autophagy; JAK/STAT Signaling
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



BIOLOGICAL ACTIVITY

Description	NDBM is a probe and binds to tumor-specific Pim-1 kinase, releases strong fluorescence, and produces cytotoxicity, thus achieving cell screening and killing effects. NDBM can specifically target lysosomes and sensitively respond to pH. NDBM can be used to track the pH changes in the intracellular environment under conditions of autophagy and external stimulation ^[1] .
IC₅₀ & Target	Pim-1 ^[1]
In Vivo	NDBM (10 μM, 30 mins) has lower fluorescence intensity in normal cells (HUVEC, RAW 264.7 cell line) than tumor cells (MGC-803, HepG2 and Hela cell lines) ^[1] . NDBM (2.5, 5, 10 and 20 μM, 18 h) decreases the survival rate of tumor cells (MGC-803, HepG2 and Hela) ^[1] . MCE has not independently confirmed the accuracy of these methods. They are for reference only.

REFERENCES

[1]. Liu C, et al. Multifunctional Theranostic Probe Based on the Pim-1 Kinase Inhibitor with the Function of Tracking pH Fluctuations during Treatment. *Anal Chem.* 2023;95(31):11732-11740.

Caution: Product has not been fully validated for medical applications. For research use only.

Tel: 609-228-6898

Fax: 609-228-5909

E-mail: tech@MedChemExpress.com

Address: 1 Deer Park Dr, Suite Q, Monmouth Junction, NJ 08852, USA