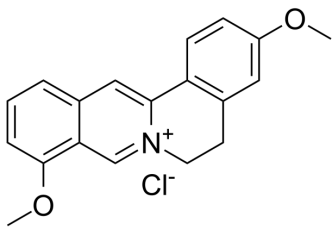
NBD-125

Cat. No.:	HY-133739
CAS No.:	2367641-24-3
Molecular Formula:	$C_{19}H_{18}ClNO_2$
Molecular Weight:	327.8
Target:	RAR/RXR
Pathway:	Metabolic Enzyme/Protease
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



BIOLOGICAL ACTIVITY

Description	NBD-125 (B-12), a berberine analogue, is an RXRα activator, with an IC_{50} of 31.10 μM in KM12C cell[1].
IC_{50} & Target	RXRα
In Vitro	NBD-125 (B-12) exhibits the strongest transcriptional activation ability to RXRα and the greatest inhibitory effect on colon cancer cell growth[1]. NBD-125 (B-12, 0-80, μM) inhibits β-catenin signaling and cell proliferation in colon cancer cells[1]. MCE has not independently confirmed the accuracy of these methods. They are for reference only.

Western Blot Analysis[1]

Cell Line:	Km12c, HCT116 and SW620 cell lines.
Concentration:	0-50 μM, 0-60, 0-80 μM.
Incubation Time:	15 h.
Result:	Downregulated c-Myc, Cdc42 protein levels.

REFERENCES

[1]. Beibei Xu, et al. Structure-Activity Relationship Study Enables the Discovery of a Novel Berberine Analogue as the RXRα Activator to Inhibit Colon Cancer. J Med Chem. 2020 Jun 11;63(11):5841-5855.

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