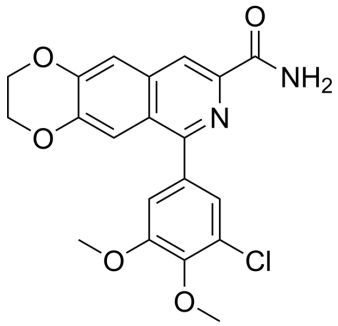
Tubulin polymerization/V-ATPase-IN-1

Cat. No.:	HY-162264
Molecular Formula:	$C_{20}H_{17}ClN_2O_5$
Molecular Weight:	400.81
Target:	Proton Pump; Microtubule/Tubulin; Apoptosis
Pathway:	Membrane Transporter/Ion Channel; Cell Cycle/DNA Damage; Cytoskeleton; Apoptosis
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



BIOLOGICAL ACTIVITY

Description

Tubulin polymerization/V-ATPase-IN-1 (compound F10) is a Tubulin polymerization/V-ATPase inhibitor. Tubulin polymerization/V-ATPase-IN-1 shows robust antiproliferation activity against four human cancer cell lines, and exerts antiproliferative activity by inhibiting tubulin and V-ATPase. Tubulin polymerization/V-ATPase-IN-1 induces immunogenic cell death in addition to apoptosis, and inhibits tumor growth in an RM-1 homograft model with enhanced T lymphocyte infiltration[1].

REFERENCES

[1]. Leng J, et al. Discovery of Novel Isoquinoline Analogues as Dual Tubulin Polymerization/V-ATPase Inhibitors with Immunogenic Cell Death Induction. J Med Chem. 2024 Feb 22;67(4):3144-3166.

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