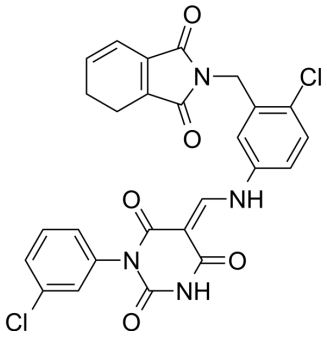
LM11

Cat. No.:	HY-157975
Molecular Formula:	$C_{26}H_{18}Cl_2N_4O_5$
Molecular Weight:	537.35
Target:	Glutaminase
Pathway:	Metabolic Enzyme/Protease
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



BIOLOGICAL ACTIVITY

Description	LM11 is an inhibitor of transglutaminase 2 (TG2) with an activity of killing glioblastoma cells by maintaining TG2 in a cytotoxic conformational state[1].
In Vitro	LM11 (0.1-100 μM, 6 h) inhibits MDA-MB-231 cell migration in a dose-dependent fashion at stimulation with EGF. LM11 (100 μM, 16 h) inhibits MDA-MB-231 cell viability with a 60% death rate. MCE has not independently confirmed the accuracy of these methods. They are for reference only.

Cell Migration Assay [2]

Cell Line:	MDA-MB-231
Concentration:	0.1, 1, 10, 100 μM
Incubation Time:	6 h
Result:	Inhibited cell migration at 10 uM of stimulation with EGF. Inhibited cell viability at 100 uM after 16 h.

REFERENCES

[1]. Cody Aplin, et al. Defining the conformational states that enable transglutaminase 2 to promote cancer cell survival versus cell death. bioRxiv. 2024.

[2]. Sabrina Schlienger, et al. ARF1 regulates adhesion of MDA-MB-231 invasive breast cancer cells through formation of focal adhesions. Cell Signal. 2015, 27, 3.

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