EC0489

Cat. No.:	HY-114306
CAS No.:	1096702-14-5
Molecular Formula:	$C_{111}H_{156}N_{22}O_{43}S_2$
Molecular Weight:	2550.68
Target:	Antifolate
Pathway:	Cell Cycle/DNA Damage
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.

{Ggu}-QEQEQC

BIOLOGICAL ACTIVITY

Description	EC0489, a conjugate of folic acid and desacetyl vinblastine hydrazide, is a high-affinity ligand for the folate receptor (FR). Refractory or metastatic Tumor[1]. Small molecule-agent conjugate (SMDC)[2].
IC_{50} & Target	Folate receptor[1]
In Vitro	The affinity of EC0489 toward the folate receptor (FR) is approximately half of that of folic acid (relative affinity 0.50)[1]. FR-positive KB cells are highly sensitive to EC0489 with an IC_{50} of 5 nM[1]. MCE has not independently confirmed the accuracy of these methods. They are for reference only.
In Vivo	EC0489 has a favorable toxicology profile in Rats. EC0489 (2, 3, and 4 μmol/kg) has antitumor activity against mice KB tumor models in a dose-dependent manner[1]. MCE has not independently confirmed the accuracy of these methods. They are for reference only.

REFERENCES

[1]. Leamon CP, et al. Reducing undesirable hepatic clearance of a tumor-targeted vinca alkaloid via novel saccharopeptidic modifications. J Pharmacol Exp Ther. 2011 Feb;336(2):336-43.

[2]. Zhuang C, et al. Small molecule-drug conjugates: A novel strategy for cancer-targeted treatment. Eur J Med Chem. 2019 Feb 1;163:883-895.

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