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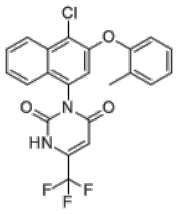
Data Sheet

Global Supplier of Chemical Probes, Inhibitors & Agonists.

Product Name	:	BAY-069
Cat. No.	:	PC-49389
CAS No.	:	2639638-66-5
Molecular Formula	:	$C_{22}H_{14}ClF_3N_2O_3$
Molecular Weight	:	446.810
Target	:	Other Targets
Solubility	:	10 mM in DMSO



Biological Activity

BAY-069 (BAY069) is a potent, selective branched-chain amino acid transaminase **BCAT1/2** inhibitor with IC50 of 31/153 nM, respectively.
BAY-069 is highly selective for BCAT1/2, and shows no activity against aspartate transaminases (GOT1 and GOT2, glutamate-oxaloacetate transaminase, IC50>50 μM), also is inactive against an protease panel (30 proteases) and kinase panel (30 kinases).
BAY-069 increases cellular branched-chain amino acid (BCAA) in tumor cell lines (U-87 MG and MDA-MB-231) with IC50 of 358 and 874 nM, respectively.
BAY-069 does not inhibit cell proliferation of U-87 MG (high BCAT1 expression) and MDA-MB-231 (high BCAT2 expression) cells.
BAY-069 is a valuable tool to better understand the biology and pharmacology of BCAT inhibition in the field of tumor metabolism.

References

Judith Günther, et al. ***J Med Chem***. 2022 Oct 19. doi: 10.1021/acs.jmedchem.2c00441.

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