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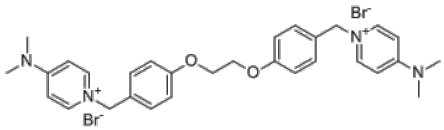
Data Sheet

Global Supplier of Chemical Probes, Inhibitors & Agonists.

Product Name	:	EB-3D
Cat. No.	:	PC-35395
CAS No.	:	1839150-63-8
Molecular Formula	:	$C_{30}H_{36}Br_2N_4O_2$
Molecular Weight	:	644.452
Target	:	Choline Kinase (ChoK)
Solubility	:	10 mM in DMSO



Biological Activity

EB-3D is a potent and selective choline kinase **ChoKα** inhibitor with IC50 of 1.0 uM (purified ChoKα1), strongly impairs cell proliferation in a variety of different cancer cell lines.
EB-3D demonstrates in vitro antiproliferative effects against HeLa (IC50=79 nM), RS4,11 (IC50=45 nM), A549 (IC50=27 nM) and MDA-MB-231 (IC50=100 nM).
EB-3D displays excellent antiproliferative activity against a wide cohort of T-leukemic cell lines with GI50 of 0.9 nM (MOLT-16 cell)-479 nM (CCRF-CEM), reduces the intracellular pool of PCho, but also inhibits the synthesis of choline-containing lipids.
induces G0/G1 arrest that lead to apoptosis in leukemia cell lines; affects AMPK-mTOR signaling pathway, synergizes with both dexamethasone and L-asparaginase.

References

Schiaffino-Ortega S, et al. ***Sci Rep***. 2016 Mar 31;6:23793.

Mariotto E, et al. ***Biochem Pharmacol.*** 2018 Jul 10. pii: S0006-2952(18)30272-7.

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