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Data Sheet

Global Supplier of Chemical Probes, Inhibitors & Agonists.

Product Name	:	CT-179
Cat. No.	:	PC-38755
CAS No.	:	1996636-69-1
Molecular Formula	:	C ₁₇ H ₂₂ Cl ₂ N ₆ O
Molecular Weight	:	397.304
Target	:	Other Targets
Solubility	:	10 mM in DMSO

Biological Activity

CT-179 is a small molecule inhibitor of protein transcription factor **OLIG2** (Oligodendrocyte transcription factor 2), CT-179 is a putative disruptor of OLIG2 homodimerization.

CT-179 profoundly inhibited the growth of, and induced apoptosis in, a range of patient-derived HGG cell lines at low nanomolar concentrations.

CT-179 caused significant downregulation of receptor tyrosine kinases that are associated with HGG tumorigenicity, including EGFR and PDGFR. Orally administered CT-179 (20 mg/kg) crossed the blood-brain barrier of intact mice and reached levels sufficient to inhibit HGG cells.

CT-179 inhibited cell viability of pediatric glioblastoma (pGBM) cells in vitro, and effectively penetrated and accumulated in CNS tissues and PDOX tumors.

References

Xu Z, et al. Clin Cancer Res. 2022 May 26:clincanres.0527.2022-3-18 13:13:01.167.

Holly Lindsay, et al. Cancer Res (2019) 79 (13_Supplement): LB-320.

Caution: Product has not been fully validated for medical applications. Lab Use Only! E-mail: tech@probechem.com