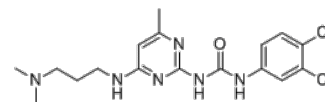


Product Name : CT-179
Cat. No. : PC-38755
CAS No. : 1996636-69-1
Molecular Formula : C₁₇H₂₂Cl₂N₆O
Molecular Weight : 397.304
Target : Other Targets
Solubility : 10 mM in DMSO



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