
PX-478

产品编号: D50889

CAS: 685898-44-6

分子式: C₁₃H₂₀Cl₄N₂O₃

纯度: ≥98%

InChi: InChi=1S/C13H18Cl2N2O3.2ClH/c14-5-7-17(20,8-6-15)11-3-1-10(2-4-11)9-12(16)13(18)19;;/h1-4,12H,5-9,16H2,(H,18,19);2*1H/t12-;;/m0../s1

InChi Key: GIGCDIVNDFQKRA-LTCKWSDVSA-N

Smiles: Cl.Cl.N[C@@H](CC1C=CC(=CC=1)[N+])([O-])(CCCl)CCCl)C(O)=O

外观: 固体粉末

作用通路: Autophagy

溶解性: DMSO up to 100 mM

保存条件: Store in dry, dark place for one year.

产品介绍: PX-478 is HIF-1α inhibitor, is also an orally active small molecule with potential antineoplastic activity. Although its mechanism of action has yet to be fully elucidated, HIF-1α inhibitor PX-478 appears to inhibit hypoxia-inducible factor 1-α (HIF1A) expression, which may result in decreased expression of HIF1A downstream target genes important to tumor growth and survival, a reduction in tumor cell proliferation, and the induction of tumor cell apoptosis. The inhibitory effect of this agent is independent of the tumor suppressor genes VHL and p53 and may be related to derangements in glucose uptake and metabolism due to inhibition of glucose transporter-1 (Glut-1). PX-478 has excellent activity against established human tumor xenografts, providing tumor regressions with prolonged growth delays which correlate positively with HIF-1 levels. PX-478 is a highly water soluble molecule, with good i.v., i.p. and p.o. antitumor activity. It is rapidly absorbed following oral and i.p. administration and gives excellent C_{max} and AUC via these routes.