
Hydroxychloroquine (HCQ)

产品编号: D50958

CAS: 747-36-4

分子式: C₁₈H₂₈ClN₃O₅S

纯度: ≥98%

InChi: InChi=1S/C₁₈H₂₆ClN₃O.H₂O₄S/c1-3-22(11-12-23)10-4-5-14(2)21-17-8-9-20-18-13-15(19)6-7-16(17)18;1-5(2,3)4/h6-9,13-14,23H,3-5,10-12H₂,1-2H₃,(H,20,21);(H₂,1,2,3,4)

InChi Key: JCBIVZZPXRZKTI-UHFFFAOYSA-N

Smiles: CCN(CCO)CCCC(C)NC1=CC=NC2=CC(Cl)=CC=C21.OS(O)(=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: Hydroxychloroquine (HCQ) is a potent autophagy inhibitor and TLR9 inhibitor. It prevents lysosomal acidification, thereby interfering with a key step in the autophagic process. In cancer cells, HCQ treatment has been shown to cause increased apoptosis, tumor regression, and delay in tumor recurrence. HCQ was an effective growth inhibitor of human RCC cell lines, inhibiting growth, promoting apoptosis, and effecting cellular metabolism. HCQ altered the levels of the mTORC1 activation marker phospho-S6 and that this effect was mediated by a different mechanism than that observed for the mTOR inhibitor RAD001. HCQ is also a potent inhibitor of TLR9, prevents DNA-TLR9 interaction in vitro and modulates signaling in vivo.