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P5091

产品编号: D50869
CAS: 882257-11-6
分子式: C12H7Cl2NO3S2
纯度: ≥98%
InChi: InChI=1S/C12H7Cl2NO3S2/c1-6(16)10-5-8(15(17)18)12(20-10)19-9-4-2-3-7(13)11(9)14/h2-5H,1H3
InChi Key: LKZLGMAAKNEGCH-UHFFFAOYSA-N
Smiles: CC(=O)C1=CC(=C(SC2C=CC=C(Cl)C=2Cl)S1)[N+]([O-])=O
外观: 固体粉末
作用通路: Deubiquitinase
溶解性: DMSO up to 100 mM
保存条件: Store in dry, dark place for one year.
产品介绍: P5091 (P005091) is a novel potent and selective inhibitor of ubiquitin-specific protease 7 (USP7) with an IC50 ~4.2 μM. It does not inhibit other DUBs or other families of cysteine proteases tested (EC50 > 100 mM). It induces apoptosis in MM cells resistant to conventional and bortezomib therapies. Biochemical and genetic studies showed that blockade of HDM2 and p21 abrogated P5091-induced cytotoxicity. In animal tumor model studies, P5091 was well tolerated, and it inhibited tumor growth, and prolongs survival. Combining P5091 with lenalidomide, HDAC inhibitor SAHA, or dexamethasone triggered synergistic anti-MM activity.