
BAM7

产品编号: D50745

CAS: 331244-89-4

分子式: C₂₁H₁₉N₅O₂S

纯度: ≥98%

InChi: InChI=1S/C₂₁H₁₉N₅O₂S/c1-3-28-18-12-8-7-11-16(18)23-24-19-14(2)25-26(20(19)27)21-22-17(13-29-21)15-9-5-4-6-10-15/h4-13,23H,3H₂,1-2H₃/b24-19+

InChi Key: KOCVKGYKBLJEPK-LYBHJNIIJSA-N

Smiles: CC1=NN(C(=O)C1=NNC1=CC=CC=C1OCC)C1=NC(=CS1)C1C=CC=CC=1

外观: 固体粉末

作用通路: Bcl-2 Family

溶解性: DMSO up to 100 mM

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

产品介绍: BAM7 is the first potent and selective small molecule activator of BAX, which is a pro-apoptotic BCL-2 family member. It binds the BAX trigger site with an EC₅₀ ~ 3.3 μM as measured in a competitive FP assay using FITC-BIM SAHB and BAX. BAM7 triggers in vitro BAX oligomerization, BAX-mediated pore formation, and does not interact with the BH3-binding pocket of antiapoptotic proteins or proapoptotic BAK. It induces cell death in a BAX-dependent fashion. It can also induce the biochemical and morphologic features of BAX-mediated apoptosis in Bak^{-/-} MEFs. BAM7 is selective for the BH3-binding groove at the N-terminal face of BAX and thus may serve as a powerful chemical tool for dissecting the physiologic consequences of direct BAX activation in a variety of homeostatic and pathologic conditions.