
Fatostatin A

产品编号: D50846

CAS: 125256-00-0

分子式: C₁₈H₁₈N₂S

纯度: ≥98%

InChi: InChI=1S/C₁₈H₁₈N₂S/c1-3-4-16-11-15(9-10-19-16)18-20-17(12-21-18)14-7-5-13(2)6-8-14/h5-12H,3-4H₂,1-2H₃

InChi Key: ZROSUBKIGBSZCG-UHFFFAOYSA-N

Smiles: CC1C=CC(=CC=1)C1=CSC(=N1)C1=CC(CCC)=NC=C1

外观: 固体粉末

作用通路: Fatty Acid Synthase (FASN)

溶解性: DMSO up to 50 mM

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

产品介绍: Fatostatin A is a highly potent, specific and cell permeable inhibitor of Sterol Regulatory Binding Proteins (SREBPs). It inhibits the ER-Golgi translocation of SREBPs via binding to their escort protein (SCAP). It blocks adipogenesis by inhibiting the activation of SREBP-1 and SREBP-2. It exhibits anti-proliferative effects on DU 145 cells independently of IGF-1 signaling (IC₅₀ ~0.1 μM). Fatostatin A can prevent increases in body weight, blood glucose and hepatic fat accumulation and reverses hyperglycemia in diabetic (ob/ob) mice, even under uncontrolled food intake. Fatostatin A may serve as a tool for gaining further insights into the regulation of SREBP.