
AA92593

产品编号: D50811

CAS: 457961-34-1

分子式: C₁₃H₁₉NO₃S

纯度: ≥98%

InChi: InChi=1S/C₁₃H₁₉NO₃S/c1-11-10-12(6-7-13(11)17-2)18(15,16)14-8-4-3-5-9-14/h6-7,10H,3-5,8-9H2,1-2H3

InChi Key: HDTKLZINZGEPFG-UHFFFAOYSA-N

Smiles: CC1C=C(C=CC=1OC)S(=O)(=O)N1CCCCC1

外观: 固体粉末

作用通路: Others

溶解性: DMSO up to 100 mM

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

产品介绍: AA92593 is a potent and selective small molecule antagonist of melanopsin-mediated photo-transduction (IC₅₀~160 nM). It inhibits melanopsin (opsinamides) by competing with retinal binding to melanopsin, and inhibits its function without affecting rod- and cone-mediated responses. In vivo administration of AA92593 to mice specifically and reversibly modified melanopsin-dependent light responses, including the pupillary light reflex and light aversion. Melanopsin, expressed in a subset of retinal ganglion cells, mediates behavioral adaptation to ambient light and other non-image-forming photic responses. The discovery of AA92593 raises the prospect of therapeutic control of the melanopsin photo-transduction system to regulate light-dependent behavior and remediate pathological conditions.