

产品名称 : AUTEN-67

同义词 : Autophagy Enhancer 67 | AUTEN67

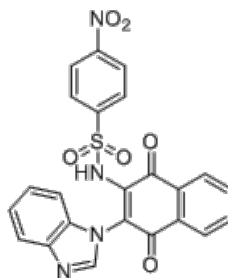
产品货号 : M12684

CAS Number : 1783800-77-0

分子式 : C₂₃H₁₄N₄O₆S

分子量 : 474.45

化学全名 : N-(3-(1H-benzo[d]imidazol-1-yl)-1,4-dioxo-1,4-dihydronaphthalen-2-yl)-4-nitrobenzenesulfonamide



产品描述 : A small molecule autophagy enhancer that specifically inhibits myotubularin-related phosphatase MTMR14; at concentrations of 2, 10, and 100 uM, AUTEN-67 inhibits MTMR14 by nearly 3%, 25%, and 70%, respectively; shows no activity for CDC25B , other phosphatase, PTPN1; significantly increases autophagic flux in cell lines and in vivo models, promotes longevity and protects neurons from undergoing stress-induced cell death; also restores nesting behavior in a murine model of Alzheimer disease, without apparent side effects.

通路 : Autophagy

靶点 : Autophagy

受体 : Autophagy

溶解度 : ——

SMILES : C1=CC=C2C(=C1)C(=O)C(=C(C2=O)N3C=NC4=CC=CC=C43)NS(=O)(=O)C5=CC=C(C=C5)[N+](=O)[O-]

存储条件 : (-20℃)

稳定性 : ≥ 2 years

参考文献 :

1. Papp D, et al. Autophagy. 2016;12(2):273-86. 2. Billes V, et al. J Huntingtons Dis. 2016 May 7;5(2):133-47.