www.bioss.com.cn
sales@bioss.com.cn
techsupport@bioss.com.cn
400-901-9800

I-CBP112

产品编号: D50798

CAS: 1640282-31-0

分子式: C27H36N2O5

纯度: ≥98%

InChi: InChI=1S/C27H36N2O5/c1-5-26(30)29-11-12-33-27-22(17-29)13-21(20-8-9-23(31-3)24(14-20)32-4)15-25(27)34-18-19-7-6-10-28(2)16-19/h8-9,13-15,19H,5-7,10-12,16-18H2,1-4H3/t19-/m0/s1

InChi Key: YKNAKDFZAWQEEO-IBGZPJMESA-N

Smiles: CN1CCC[C@@H](C1)COC1=CC(=CC2CN(CCOC=21)C(=O)CC)C1=CC(OC)=C(C=C1)OC

外观: 固体粉末

作用通路: Epigenetic Reader Domain

溶解性: DMSO up to 50 mM

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

产品介绍: I-CBP112 is a highly potent and selective p300/CBP bromodomain inhibitor (IC50 ~0.14-0.17 μM for CBP and ~0.625 μM for p300). It binds CBP and p300 bromodomains directly, and has excellent selectivity against the entire bromodomain family in a BLI assay. It accelerated FRAP recovery at 1 μM and no significant cytotoxicity up to 50 μM in U2OS cells. p300 and CBP are transcriptional co-activators that modulate DNA replication, DNA repair, cell growth, transformation, and development. Both p300 and CBP contain bromodomains, which mediate their binding to acetylated lysine residues on histones and other proteins. Chromosomal translocations of p300 or CBP with MOZ, MLL have been observed in acute myeloid leukemia. CBP has also been associated with Amyotrophic lateral sclerosis (ALS), a neurodegenerative disease with progressive degeneration of motor neurons in the brain and spinal cord, Alzheimer's disease and polyglutamine diseases such as Spinal and Bulbar Muscular Atrophy and Huntington’ s disease.