SZABO SCANDIC

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Produktinformation

- Forschungsprodukte & Biochemikalien
- Zellkultur & Verbrauchsmaterial
- Diagnostik & molekulare Diagnostik
- Laborgeräte & Service

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Lieferung & Zahlungsart

siehe unsere Liefer- und Versandbedingungen

Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

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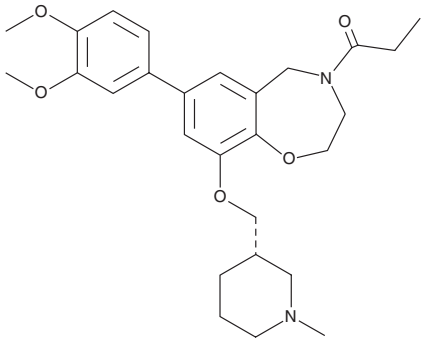
PRODUCT INFORMATION

I-CBP112

Item No. 36811



CAS Registry No.:	1640282-31-0
Formal Name:	1-[7-(3,4-dimethoxyphenyl)-2,3-dihydro-9-[[(3S)-1-methyl-3-piperidinyl] methoxy]-1,4-benzoxazepin-4(5H)-yl]-1-propanone
MF:	$C_{27}H_{36}N_2O_5$
FW:	468.6
Purity:	≥98%
Supplied as:	A solution in ethanol
Storage:	-20°C
Stability:	≥2 years

Information represents the product specifications. Batch specific analytical results are provided on each certificate of analysis.

Laboratory Procedures

I-CBP112 is supplied as a solution in ethanol. To change the solvent, simply evaporate the ethanol under a gentle stream of nitrogen and immediately add the solvent of choice. Solvents such as DMSO and dimethyl formamide (DMF) purged with an inert gas can be used. The solubility of I-CBP112 in these solvents is approximately 5 mg/ml in DMSO and DMF.

Description

I-CBP112 is an inhibitor of p300 and CREB-binding protein (CBP) histone acetyltransferases.[1] It binds to the p300 and CBP bromodomains (K_ds = 167 and 151 nM, respectively) and is selective for p300 and CBP over BRD4, as well as a panel of 104 nuclear receptors and ion channels and a panel of 32 enzymes at 10 µM. I-CBP112 displaces acetylated histones from CBP in a cell-free assay (IC_{50} = 170 nM). It reduces colony formation and increases differentiation of primary murine leukemic blasts and delays disease initiation following leukemic blast transplantation into sub-lethally irradiated mice when used at concentrations of 5 and 10 µM.

Reference

1. Picaud, S., Fedorov, O., Thanasopoulou, A., *et al.* Generation of a selective small molecule inhibitor of the CBP/p300 bromodomain for leukemia therapy. *Cancer Res.* **75(23),** 5106-5119 (2015).

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