

Product Name: SGC-CBP30

Catalog No.: 4889

Batch No.: 2

CAS Number: 1613695-14-9

IUPAC Name: 2-[2-(3-Chloro-4-methoxyphenyl)ethyl]-5-(dimethyl-1,2-oxazol-4-yl)-1-[(2S)-2-(morpholin-4-yl)propyl]-1*H*-1,3-benzodiazole

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: C₂₈H₃₃ClN₄O₃·³/₄H₂O

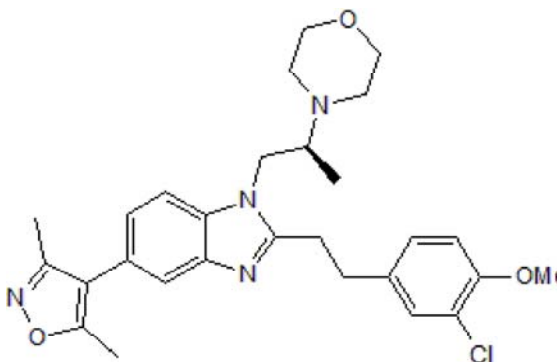
Batch Molecular Weight: 522.55

Physical Appearance: Off-white solid

Solubility: DMSO to 100 mM
ethanol to 100 mM

Storage: Store at +4°C

Batch Molecular Structure:



2. ANALYTICAL DATA

TLC: R_f = 0.58 (Ethyl acetate:Methanol [9:1])

HPLC: Shows 98.2% purity

¹H NMR: Consistent with structure

Mass Spectrum: Consistent with structure

Optical Rotation: [α]_D = +17.4 (Concentration = 1, Solvent = Ethanol)

Microanalysis:

	Carbon	Hydrogen	Nitrogen
Theoretical	64.36	6.65	10.72
Found	64.28	6.4	10.67

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Description:

SGC-CBP30 is a potent CBP/p300 bromodomain (BRD) inhibitor (K_d values are 21 and 32 nM for CBP and p300 BRDs respectively). Exhibits 40-fold and 250-fold selectivity for CBP over the first BRD of BRD4 (BRD4(1)) and BRD4(2) respectively. Accelerates FRAP recovery in cells at a concentration of 1 μ M. SGC-CBP30 can be used in protocols for the chemical reprogramming of somatic cells to iPSCs.

Physical and Chemical Properties:

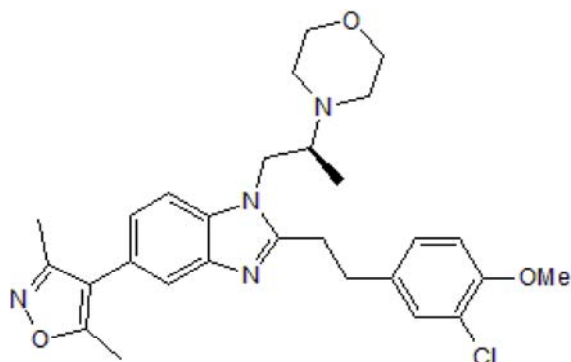
Batch Molecular Formula: $C_{28}H_{33}ClN_4O_3 \cdot \frac{3}{4}H_2O$

Batch Molecular Weight: 522.55

Physical Appearance: Off-white solid

Minimum Purity: $\geq 98\%$

Batch Molecular Structure:



References:

Guan *et al* (2022) Chemical reprogramming of human somatic cells to pluripotent stem cells. *Nature* **605** 325. PMID: 35418683.

Hammitzsch *et al* (2015) CBP30, a selective CBP/p300 bromodomain inhibitor, suppresses human Th17 responses. *Proc.Natl.Acad.Sci.U.S.A.* **112** 10768. PMID: 26261308.

Gallenkamp *et al* (2014) Bromodomains and their pharmacological inhibitors. *ChemMedChem* **9** 438. PMID: 24497428.

Storage: Store at +4°C

Solubility & Usage Info:

DMSO to 100 mM
ethanol to 100 mM

Stability and Solubility Advice:

Some solutions can be difficult to obtain and can be encouraged by rapid stirring, sonication or gentle warming (in a 45-60°C water bath).

Information concerning product stability, particularly in solution, has rarely been reported and in most cases we can only offer a general guide. Our standard recommendations are:

SOLIDS: Provided storage is as stated on the product label and the vial is kept tightly sealed, the product can be stored for up to 6 months from date of receipt.

SOLUTIONS: We recommend that stock solutions, once prepared, are stored aliquoted in tightly sealed vials at -20°C or below and used within 1 month. Wherever possible solutions should be made up and used on the same day.

Licensing Information:

This probe is supplied in conjunction with the Structural Genomics Consortium. For further characterization details, please visit the SGC-CBP30 probe summary on the SGC website.

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