Product Data Sheet

SGC-CBP30

Cat. No.:	A4491
CAS No.:	1613695-14-9
Formula:	C28H33ClN4O3
M.Wt:	509.04
Synonyms:	SGCCBP30,SGC CBP30
Target:	Chromatin/Epigenetics
Pathway:	Bromodomain
Storage:	Store at 4°C

Solvent & Solubility

In Vitro

⩾20.05 mg/mL in DMSO; ⩾25.7 mg/mL in EtOH with ultrasonic; ⩾4.67 mg/mL in H2O with ultrasonic

Preparing Stock Solutions

Concentration \ Solvent \ Mass	1mg	5mg	10mg
1 mM	1.9645 mL	9.8224 mL	19.6448 mL
5 mM	0.3929 mL	1.9645 mL	3.9290 mL
10 mM	0.1964 mL	0.9822 mL	1.9645 mL

Please refer to the solubility information to select the appropriate solvent.

Biological Activity

Shortsummary	Inhibitor of CREBBP/EP300 bromodomain,potent
IC_{50} & Target	21 nM (CREBBP), 38 nM (EP300)

In Vitro

Cell Viability Assay

Cell Line:	HeLa cells and RKO cells
Preparation method:	Limited solubility. General tips for obtaining a higher concentration: Please warm the tube at 37 °C for 10 minutes and/or shake it in the ultrasonic bath for a while. Stock solution can be stored below -20°C for several months.
Reacting conditions:	37°C

	Applications:	In HeLa cells, treatment of SAHA-treated cells with 0.1 μM SGC-CBP30 reduces FRAP recovery times back to unstimulated levels. In RKO cells, SGC-CBP30 effectively inhibits the Doxorubicin induced p53 activity in a dose-dependent manner.
In Vivo	**Animal experiment**	
	Applications:	

Product Citations

1. Li N, Yang L, et al. "BET bromodomain inhibitor JQ1 preferentially suppresses EBV-positive nasopharyngeal carcinoma cells partially through repressing c-Myc." Cell Death Dis. 2018 Jul 9;9(7):761.PMID:29988031
2. Alonso, Victoria Lucia, et al. "Overexpression of bromodomain factor 3 in Trypanosoma cruzi (TcBDF3) affects differentiation of the parasite and protects it against bromodomain inhibitors." FEBS Journal (2016).PMID:27007774

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References

1. Hay DA, Fedorov O, Martin S et al. Discovery and optimization of small-molecule ligands for the CBP/p300 bromodomains. J Am Chem Soc. 2014 Jul 2;136(26):9308-19.

Caution

FOR RESEARCH PURPOSES ONLY.

NOT FOR HUMAN, VETERINARY DIAGNOSTIC OR THERAPEUTIC USE.

Specific storage and handling information for each product is indicated on the product datasheet. Most APExBIO products are stable under the recommended conditions. Products are sometimes shipped at a temperature that differs from the recommended storage temperature. Shortterm storage of many products are stable in the short-term at temperatures that differ from that required for long-term storage. We ensure that the product is shipped under conditions that will maintain the quality of the reagents. Upon receipt of the product, follow the storage recommendations on the product data sheet.

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