

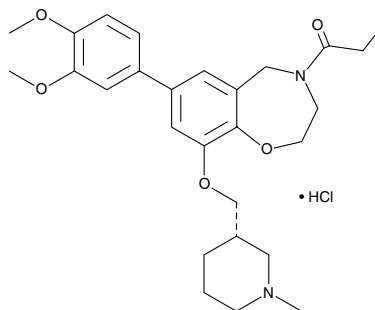
Product Information



I-CBP112 (hydrochloride)

Item No. 14468

Formal Name: (S)-1-(7-(3,4-dimethoxyphenyl)-9-((1-methylpiperidin-3-yl)methoxy)-2,3-dihydrobenzo[f][1,4]oxazepin-4(5H)-yl)propan-1-one, monohydrochloride
MF: C₂₇H₃₆N₂O₅ • HCl
FW: 505.1
Purity: ≥90%
Stability: ≥2 years at -20°C
Supplied as: A crystalline solid
UV/Vis.: λ_{max}: 213, 269, 291 nm



Laboratory Procedures

For long term storage, we suggest that I-CBP112 (hydrochloride) be stored as supplied at -20°C. It should be stable for at least two years.

I-CBP112 (hydrochloride) is supplied as a crystalline solid. A stock solution may be made by dissolving the I-CBP112 (hydrochloride) in the solvent of choice. I-CBP112 (hydrochloride) is soluble in organic solvents such as ethanol, DMSO, and dimethyl formamide, which should be purged with an inert gas. The solubility of I-CBP112 (hydrochloride) in these solvents is approximately 16 mg/ml.

Further dilutions of the stock solution into aqueous buffers or isotonic saline should be made prior to performing biological experiments. Ensure that the residual amount of organic solvent is insignificant, since organic solvents may have physiological effects at low concentrations. Organic solvent-free aqueous solutions of I-CBP112 (hydrochloride) can be prepared by directly dissolving the crystalline solid in aqueous buffers. The solubility of I-CBP112 (hydrochloride) in PBS, pH 7.2, is approximately 10 mg/ml. We do not recommend storing the aqueous solution for more than one day.

cAMP-responsive element-binding protein binding protein (CREBBP) and E1A-associated protein p300 (EP300) are transcriptional co-activators that modulate DNA replication, DNA repair, cell growth, transformation, and development.^{1,2} Both CBP and EP300 contain bromodomains, which mediate their binding to acetylated lysine residues on histones and other proteins.³ I-CBP112 is a selective inhibitor of CBP and EP300 that directly binds their bromodomains (K_d = 0.142 and 0.625 μM). Developed by the Structural Genomics Consortium (<http://www.thesgc.org/chemical-probes/ICBP112>), this compound shows only weak cross-reactivity with the bromodomains of bromodomain and extra-terminal proteins and shows no interaction with other bromodomains.

References

1. Iyer, N.G., Özdag, H., and Caldas, C. p300/CBP and cancer. *Oncogene* **23**, 4225-4231 (2004).
2. Kalkhoven, E. CBP and p300: HATs for different occasions. *Biochem. Pharmacol.* **68**, 1145-1155 (2004).
3. Zeng, L., Zhang, Q., Gerona-Navarro, G., *et al.* Structural basis of site-specific histone recognition by the bromodomains of human coactivators PCAF and CBP/p300. *Structure* **16**(4), 643-652 (2008).

Related Products

For a list of related products please visit: www.caymanchem.com/catalog/14468

WARNING: THIS PRODUCT IS FOR LABORATORY RESEARCH ONLY: NOT FOR ADMINISTRATION TO HUMANS. NOT FOR HUMAN OR VETERINARY DIAGNOSTIC OR THERAPEUTIC USE.

SAFETY DATA

This material should be considered hazardous until information to the contrary becomes available. Do not ingest, swallow, or inhale. Do not get in eyes, on skin, or on clothing. Wash thoroughly after handling. This information contains some, but not all, of the information required for the safe and proper use of this material. Before use, the user must review the complete Safety Data Sheet, which has been sent via email to your institution.

WARRANTY AND LIMITATION OF REMEDY

Cayman Chemical Company makes **no warranty or guarantee** of any kind, whether written or oral, expressed or implied, including without limitation, any warranty of fitness for a particular purpose, suitability and merchantability, which extends beyond the description of the chemicals hereof. Cayman **warrants only** to the original customer that the material will **meet our specifications at the time of delivery**.

Cayman will carry out its delivery obligations with due care and skill. Thus, in no event will Cayman have **any obligation or liability**, whether in tort (including negligence) or in contract, for any direct, indirect, incidental or consequential damages, even if Cayman is informed about their possible existence.

This limitation of liability does not apply in the case of intentional acts or negligence of Cayman, its directors or its employees.

Buyer's **exclusive remedy** and Cayman's sole liability hereunder shall be limited to a **refund** of the purchase price, or at Cayman's option, the **replacement**, at no cost to Buyer, of all material that does not meet our specifications.

Said refund or replacement is conditioned on Buyer giving written notice to Cayman within thirty (30) days after arrival of the material at its destination. Failure of Buyer to give said notice within thirty (30) days shall constitute a waiver by Buyer of all claims hereunder with respect to said material.

For further details, please refer to our **Warranty and Limitation of Remedy** located on our website and in our catalog.

Copyright Cayman Chemical Company, 01/05/2015

Cayman Chemical

Mailing address
1180 E. Ellsworth Road
Ann Arbor, MI
48108 USA

Phone
(800) 364-9897
(734) 971-3335

Fax
(734) 971-3640

E-Mail
custserv@caymanchem.com

Web
www.caymanchem.com