

Produktinformation



Forschungsprodukte & Biochemikalien



Zellkultur & Verbrauchsmaterial



Diagnostik & molekulare Diagnostik



Laborgeräte & Service

Weitere Information auf den folgenden Seiten! See the following pages for more information!



Lieferung & Zahlungsart

siehe unsere Liefer- und Versandbedingungen

Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

SZABO-SCANDIC HandelsgmbH

Quellenstraße 110, A-1100 Wien

T. +43(0)1 489 3961-0

F. +43(0)1 489 3961-7

mail@szabo-scandic.com

www.szabo-scandic.com

linkedin.com/company/szaboscandic in



PRODUCT INFORMATION



PFI-4

MF:

Item No. 17663

CAS Registry No.: 900305-37-5

Formal Name: N-[2,3-dihydro-1,3-dimethyl-

2-oxo-6-(1-pyrrolidinyl)-1H-

benzimidazol-5-yl]-2-methoxy

benzamide $C_{21}H_{24}N_4O_3$

380.4 FW: **Purity:** ≥98%

≥2 years at -20°C Stability: Supplied as: A crystalline solid λ_{max} : 240, 325 nm UV/Vis.:

Laboratory Procedures

For long term storage, we suggest that PFI-4 be stored as supplied at -20°C. It should be stable for at least two years.

PFI-4 is supplied as a crystalline solid. A stock solution may be made by dissolving the PFI-4 in the solvent of choice. PFI-4 is soluble in the organic solvent dimethyl formamide (DMF), which should be purged with an inert gas. The solubility of PFI-4 in DMF is approximately 2 mg/ml.

PFI-4 is sparingly soluble in aqueous buffers. For maximum solubility in aqueous buffers, PFI-4 should first be dissolved in DMF and then diluted with the aqueous buffer of choice. PFI-4 has a solubility of approximately 0.5 mg/ml in a 1:1 solution of DMF:PBS (pH 7.2) using this method. We do not recommend storing the aqueous solution for more than one day.

Description

The bromodomain and PHD finger-containing (BRPF) proteins are scaffolding components of chromatinbinding MOZ/MORF histone acetyltransferase complexes, which have activity as transcriptional regulators. 1,2 BRPF1, aka BR140 or Peregrin, is important for maintaining Hox gene expression and the development of multiple tissues, axial skeleton, and the hematopoietic system.² PFI-4 is a chemical probe that specifically binds to the bromodomain of BRPF1 (K_d = 13 nM), inhibiting binding to tri-acetylated histone 4 (residues 1-21).³ It has much lower affinity for bromodomain 1 of BRD4 (K_d = >50 μ M) and is selective for BRPF1 over BRPF2 and BRPF3.³ PFI-4 is potent in cells, with an IC₅₀ value of 250 nM. See the Structural Genomics Consortium (SGC) website for more information.

References

- 1. Ullah, M., Pelletier, N., Xiao, L., et al. Molecular architecture of quartet MOZ/MORF histone acetyltransferase complexes. Mol. Cell Biol. 28(22), 6828-6843 (2008).
- 2. Klein, B.J., Lalonde, M.-E., Cōté, J., et al. Crosstalk between epigenetic readers regulates the MOZ/MORF HAT complexes. Epigenetics 9(2), 186-193 (2014).
- 3. Demont, E.H., Bamborough, P., Chung, C.-W., et al. 1,3-Dimethyl benzimidazolones are potent, selective inhibitors of the BRPF1 bromodomain. ACS Med. Chem. Lett. 5, 1190-1195 (2014).

WARNING
THIS PRODUCT IS FOR RESEARCH ONLY - NOT FOR HUMAN OR VETERINARY DIAGNOSTIC OR THERAPEUTIC USE.

al should be considered hazardous until further information becomes available. Do not ingest, inhale, get in eyes, on skin, or on clothing. Wash thoroughly after handling. Before use, the user must review the complete Safety Data Sheet, which has been sent via email to your institution

Buyer agrees to purchase the material subject to Cayman's Terms and Conditions. Complete Terms and Conditions including Warranty and Limitation of Liability information can be found on our website.

Copyright Cayman Chemical Company, 08/13/2015

CAYMAN CHEMICAL

1180 EAST ELLSWORTH RD ANN ARBOR, MI 48108 · USA PHONE: [800] 364-9897

[734] 971-3335

FAX: [734] 971-3640 CUSTSERV@CAYMANCHEM.COM WWW.**CAYMANCHEM**.COM