

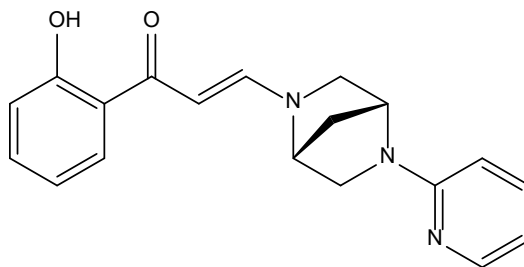
Catalog # 10-4034

PFI-3

CAS# 1819363-80-8

(2E)-1-(2-Hydroxyphenyl)-3-[(1R,4R)-5-(pyridine-2-yl)-2,5-diazabicyclo{2.2.1}heptan-2-yl]prop-2-en-1-one

Lot # FBS1105



PFI-3 is a selective inhibitor of family VIII bromodomains PB1(5), SMARCA2, and SMARCA4.¹ It showed complete selectivity over all non-family VIII bromodomains. PFI-3 blocked adipogenesis in C3H10T1/2 mesenchymal cells at 20 μ M. Treatment of embryonic stem cells with PFI-3 led to deprivation of stemness and deregulated lineage specificity. Differentiation of trophoblast stem cells in the presence of PFI-3 was enhanced.² Cell permeable.

- 1) Gerstenberger *et al.* (2016), *Identification of a chemical probe for family VIII bromodomains through optimization of a fragment hit*; J. Med. Chem. **59** 4800
- 2) Fedorov *et al.* (2015), *Selective targeting of the BRG/PB1 bromodomains impairs embryonic and trophoblast stem cell maintenance*; Sci. Adv. **1** e1500723

PHYSICAL DATA

Molecular Weight: 321.37
Molecular Formula: C₁₉H₁₉N₃O₂
Purity: >98%
NMR: (Conforms)
Solubility: Soluble in DMSO (>25 mg/ml)
Physical Description: Yellow solid
Storage and Stability: Store as supplied at -20°C for up to 1 year from the date of purchase. Store solutions at -20°C for up to 1 month.

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