

Produktinformation



Forschungsprodukte & Biochemikalien
Zellkultur & Verbrauchsmaterial
Diagnostik & molekulare Diagnostik
Laborgeräte & Service

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Lieferung & Zahlungsart siehe unsere Liefer- und Versandbedingungen

Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

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PRODUCT INFORMATION



PFI-3

Item No. 15267

CAS Registry No.:	1819363-80-8	
Formal Name:	(2E)-1-(2-hydroxyphenyl)-3-[(1R,4R)-5-(2-	
	pyridinyl)-2,5-diazabicyclo[2.2.1]hept-2-	
	yl]-2-propen-1-one	
MF:	C ₁₉ H ₁₉ N ₃ O ₂	
FW:	321.4	
Purity:	≥98%	
UV/Vis.:	λ _{max} : 211, 230, 247, 362 nm	
Supplied as:	A crystalline solid	N
Storage:	-20°C	~
Stability:	≥2 years	
Information represents the product specifications. Batch specific analytical results are provided on each certificate of analysis		

Laboratory Procedures

PFI-3 is supplied as a crystalline solid. A stock solution may be made by dissolving the PFI-3 in the solvent of choice. PFI-3 is soluble in organic solvents such as ethanol, DMSO, and dimethyl formamide (DMF), which should be purged with an inert gas. The solubility of PFI-3 in ethanol is approximately 0.3 mg/ml and approximately 25 mg/ml in DMSO and DMF.

PFI-3 is sparingly soluble in aqueous buffers. For maximum solubility in aqueous buffers, PFI-3 should first be dissolved in DMSO and then diluted with the aqueous buffer of choice. PFI-3 has a solubility of approximately 0.15 mg/ml in a 1:5 solution of DMSO:PBS (pH 7.2) using this method. We do not recommend storing the aqueous solution for more than one day.

Description

The SWI/SNF-related, Matrix-associated, Actin-dependent Regulator of Chromatin (SMARC) proteins integrate into complexes that remodel chromatin.¹ The SMARC family A (SMARCA) members SMARCA2 (also known as BRM) and SMARCA4 (BRG1) are helicases that contain structurally-related bromodomains for binding acetylated lysine residues on target proteins.^{2,3} The protein polybromo-1 (PB1, BRG1-associated factor) contains six bromodomains, but only the fifth (PB1(5)) shares the same structural signature as those of SMARCA2 and SMARCA4.² PFI-3 is a probe that binds avidly to the structurally-similar SMARCA4 bromodomain and PB1(bromodomain 5) with K_d values of 89 and 48 nM, respectively. Evaluation of interactions of PFI-3 with different classes of bromodomains using thermal stability assay indicates that PFI-3 interacts selectively with bromodomains from SMARCA2 and SMARCA4 as well as the fifth domain of PB1. Similarly, PFI-1 (Item No. 11155) does not interact with a panel of kinases. See the Structural Genomics Consortium (SGC) website for more information.

References

- 1. Ring, H.Z., Vameghi-Meyers, V., Wang, W., et al. Five SWI/SNF-related, matrix-associated, actin-dependent regulator of chromatin (SMARC) genes are dispersed in the human genome. Genomics 51(1), 140-143 (1998).
- 2. Vidler, L.R., Brown, N., Knapp, S., et al. Druggability analysis and structural classification of bromodomain acetyl-lysine binding sites. J. Med. Chem. 55(17), 7346-7359 (2012).
- 3. Park, J.-I., Venteicher, A.S., Hong, J.Y., et al. Telomerase modulates Wht signalling by association with target gene chromatin. Nature 460(7251), 66-72 (2009).

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

SAFFTY DATA

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

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