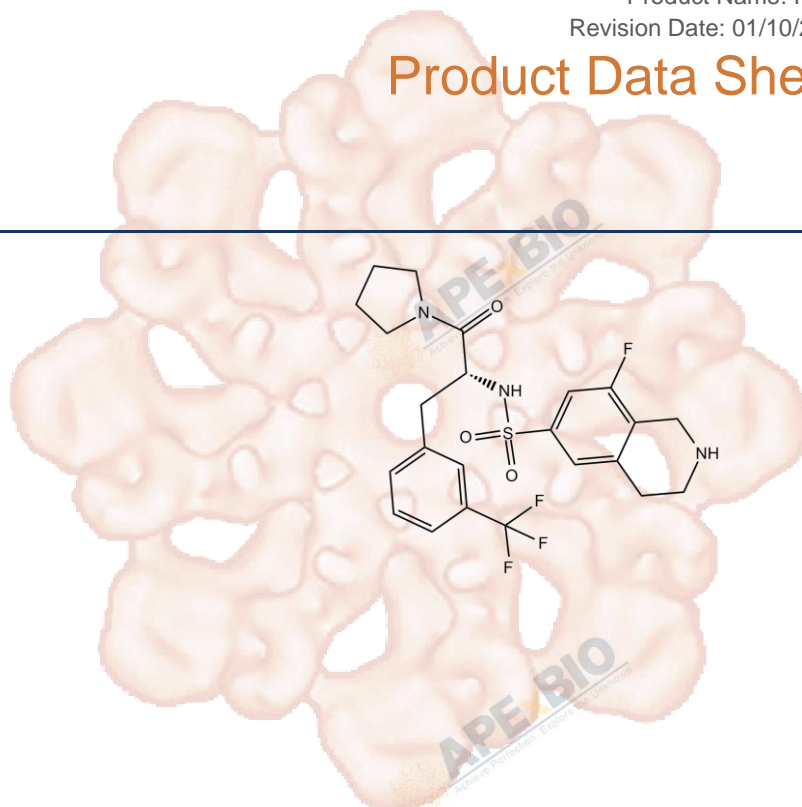


# Product Data Sheet

## PFI-2

<b>Cat. No.:</b>	B4875
<b>CAS No.:</b>	1627676-59-8
<b>Formula:</b>	C <sub>23</sub> H <sub>25</sub> F <sub>4</sub> N <sub>3</sub> O <sub>3</sub> S
<b>M.Wt:</b>	499.52
<b>Synonyms:</b>	
<b>Target:</b>	Chromatin/Epigenetics
<b>Pathway:</b>	Histone Methyltransferase
<b>Storage:</b>	Store at -20°C



## Solvent & Solubility

≥50 mg/mL in DMSO; ≥1.51 mg/mL in H<sub>2</sub>O with gentle warming and ultrasonic; ≥8.12 mg/mL in EtOH

In Vitro

Preparing Stock Solutions	Solvent		Mass		
	Concentration		1mg	5mg	10mg
	1 mM		2.0019 mL	10.0096 mL	20.0192 mL
	5 mM		0.4004 mL	2.0019 mL	4.0038 mL
	10 mM		0.2002 mL	1.0010 mL	2.0019 mL

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

## Biological Activity

Shortsummary

SETD7 methyltransferase inhibitor

IC<sub>50</sub> & Target

In Vitro

### Cell Viability Assay

Cell Line:	MEFs and MCF7 cells
Preparation method:	The solubility of this compound in DMSO is > 10 mM. 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:	0-10 μM, 2h

	Applications:	In Setd7+/+ murine embryonic fibroblasts (MEFs) in the presence of (R)-PFI-2 (10 µM), Setd7+/+ MEFs grown to confluence and displayed increased nuclear localization of YAP, as well as increased expression of YAP-dependent genes Ctgf, Gli2, and Cdc20. (R)-PFI-2 had no effect in Setd7-/- MEFs. In confluent MCF7 cells, (R)-PFI-2 (1 µM for 2h) dose-dependently increased nuclear YAP and increased expression of the YAP target genes AREG and CYR61.
In Vivo	<b>Animal experiment</b>	
	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

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## References

[1]. Barsyte-Lovejoy D, Li F, Oudhoff MJ, et al. (R)-PFI-2 is a potent and selective inhibitor of SETD7 methyltransferase activity in cells. Proc Natl Acad Sci U S A, 2014, 111(35): 12853-12858.

## 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 APEX BIO 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.

**APEX BIO Technology**

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