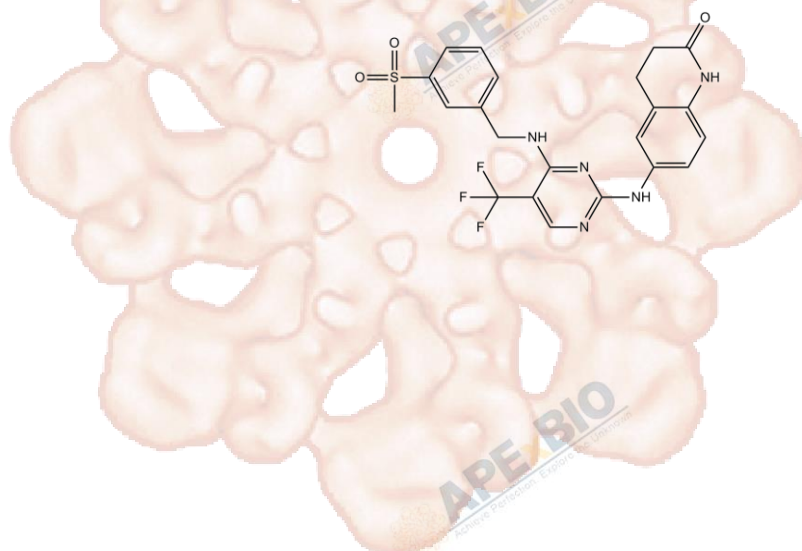


Product Data Sheet

PF-573228

Cat. No.:	B1523
CAS No.:	869288-64-2
Formula:	C ₂₂ H ₂₀ F ₃ N ₅ O ₃ S
M.Wt:	491.49
Synonyms:	
Target:	Tyrosine Kinase
Pathway:	FAK
Storage:	Store at -20°C



Solvent & Solubility

insoluble in EtOH; insoluble in H₂O; ≥ 166.6 mg/mL in DMSO

In Vitro

Preparing Stock Solutions	Solvent	Mass		
		1mg	5mg	10mg
	Concentration			
	1 mM	2.0346 mL	10.1731 mL	20.3463 mL
	5 mM	0.4069 mL	2.0346 mL	4.0693 mL
	10 mM	0.2035 mL	1.0173 mL	2.0346 mL

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

Biological Activity

Shortsummary

ATP-competitive FAK inhibitor

IC₅₀ & Target

4 nM (FAK)

In Vitro

Cell Viability Assay

Cell Line: REF52, PC3 or MDCK cells, REF52 cells

Preparation method: The solubility of this compound in DMSO is >166.6mg/mL. 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: 1-10 μM, 24 h

	Applications:	PF-228 inhibited FAK phosphorylation in A431 cells with IC50 of 11 nM. PF-228 blocked FAK Tyr397 phosphorylation in PC3 (prostate carcinoma), SKOV-3 (ovarian carcinoma), L3.6p1 and F-G (pancreatic carcinomas), and MDCK cells with IC50 of 30-500 nM. In REF52 cells, treatment with 1-3 μ M PF-228 reduced FN-stimulated FAK Tyr397 phosphorylation by ~65–85%. Treatment with 10 μ M PF-228 blocked random migration and efficiently blocked serum and FN-stimulated migration. Treatment of cultures with 1 μ M PF-228 significantly reduced the rate of movement of individual cells into the wound.
In Vivo	Animal experiment	
	Applications:	
	Other notes:	Please test the solubility of all compounds indoor, and the actual solubility may slightly differ with the theoretical value. This is caused by an experimental system error and it is normal.

Product Citations

1. Kath C, Goni-Oliver P, et al. "PTEN suppresses axon outgrowth by down-regulating the level of deetyrosinated microtubules." PLoS One. 2018 Apr 4;13(4):e0193257.PMID:29617365

See more customer validations on www.apexbt.com.

References

[1]. Slack-Davis J K, Martin K H, Tilghman R W, et al. Cellular characterization of a novel focal adhesion kinase inhibitor[J]. Journal of Biological Chemistry, 2007, 282(20): 14845-14852.

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. Short-term 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.

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