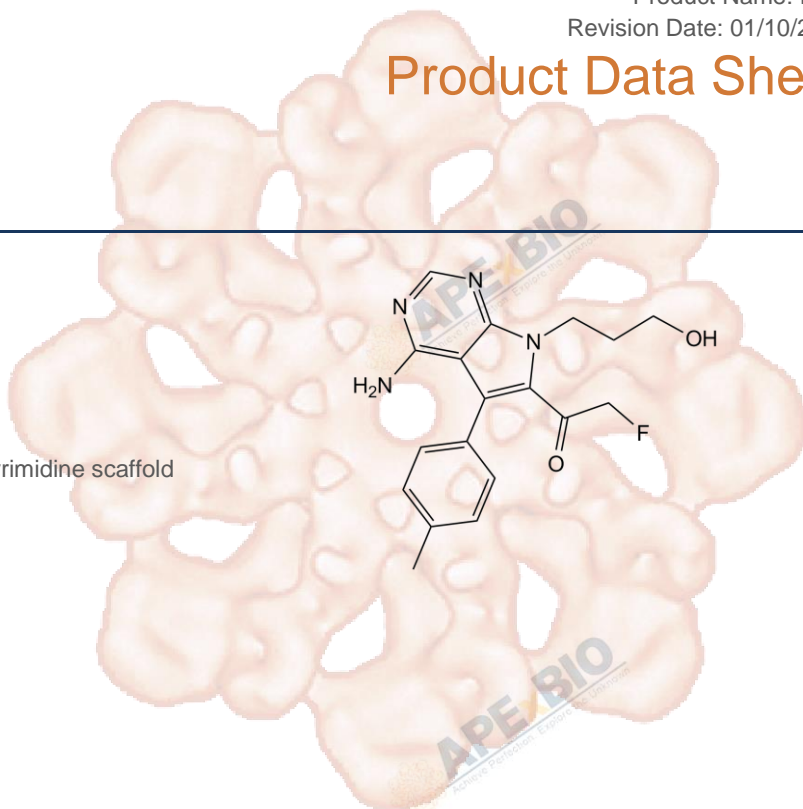


Product Data Sheet

FMK

Cat. No.:	A3420
CAS No.:	821794-92-7
Formula:	C ₁₈ H ₁₉ FN ₄ O ₂
M.Wt:	342.37
Synonyms:	fluoromethylketone-pyrrolopyrimidine scaffold
Target:	PI3K/Akt/mTOR Signaling
Pathway:	S6 Kinase
Storage:	Store at -20°C



Solvent & Solubility

insoluble in H₂O; ≥17.1 mg/mL in DMSO; ≥28.7 mg/mL in EtOH

In Vitro

Preparing Stock Solutions	Mass			
	Solvent Concentration	1mg	5mg	10mg
	1 mM	2.9208 mL	14.6041 mL	29.2082 mL
	5 mM	0.5842 mL	2.9208 mL	5.8416 mL
	10 mM	0.2921 mL	1.4604 mL	2.9208 mL

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

Biological Activity

Shortsummary

RSK inhibitor

IC₅₀ & Target

(RSK1), 15 nM (RSK2)

In Vitro

Cell Viability Assay

Cell Line:	Ba/F3 cells, FGFR3-expressing myeloma cell lines KMS11
Preparation method:	The solubility of this compound in DMSO is >17.1mg/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:	0.5-10 μM, 16 and 24 hr

	Applications:	FMK effectively inhibited FGFR3 TDII and TEL-FGFR3-induced IL-3-independent growth of Ba/F3 cells in a dose-dependent manner. RSK inhibitor fmk inhibits cytokine-independent proliferation of Ba/F3 cells conferred by FGFR3. Fmk induced significant apoptosis in fgfr3-expressing, t(4;14)-positive human myeloma cell lines and primary human myeloma cells.
	Animal experiment	
In Vivo	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

See more customer validations on www.apexbt.com.

References

[1]. Kang S, Dong S, Gu T L, et al. FGFR3 activates RSK2 to mediate hematopoietic transformation through tyrosine phosphorylation of RSK2 and activation of the MEK/ERK pathway[J]. Cancer cell, 2007, 12(3): 201-214.

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 APExBIO 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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