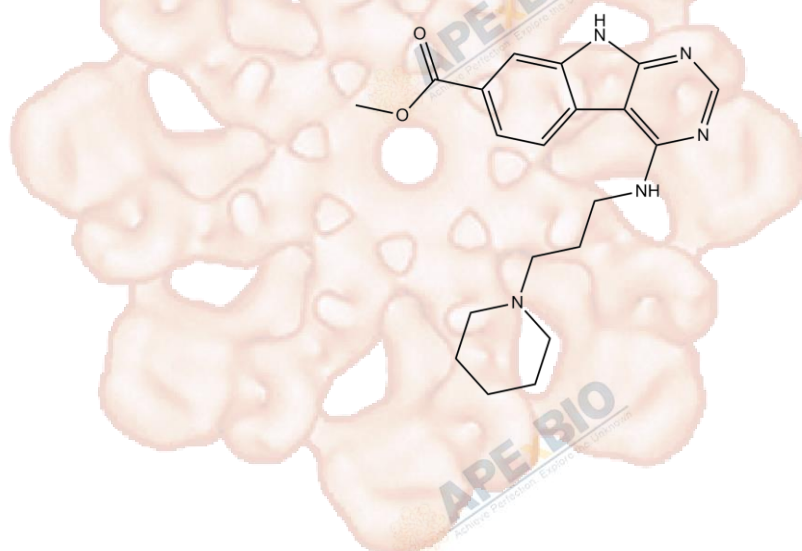


Product Data Sheet

UM 729

Cat. No.:	A8952
CAS No.:	1448723-60-1
Formula:	C ₂₀ H ₂₅ N ₅ O ₂
M.Wt:	367.44
Synonyms:	
Target:	Stem Cell
Pathway:	HSC
Storage:	Store at -20°C



Solvent & Solubility

≥36.7 mg/mL in DMSO; insoluble in EtOH; insoluble in H₂O

In Vitro

Preparing Stock Solutions	Solvent		Mass		
	Concentration		1mg	5mg	10mg
	1 mM		2.7215 mL	13.6077 mL	27.2153 mL
	5 mM		0.5443 mL	2.7215 mL	5.4431 mL
	10 mM		0.2722 mL	1.3608 mL	2.7215 mL

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

Biological Activity

Shortsummary

Enhancer of AhR antagonists

IC₅₀ & Target

In Vitro

Cell Viability Assay

Cell Line:	Human AML cells
Preparation method:	This compound is soluble in DMSO. 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 μM; 4 days

	Applications:	UM 729 inhibited AML cell differentiation. In 05H163 cells, AhR suppressors (flavonoid, benzothioephene, and β -carboline) combined UM 729 increased the numbers of CD34+CD15-cells. In most AML specimens, UM 729 exhibited an additive effect with AhR antagonists in inhibiting cell differentiation.
In Vivo	Animal experiment	
	Animal models:	NSG mice
	Dosage form:	1 μ M; i.v.
	Applications:	In NSG mice, UM 729 administered alone or in combination with SR1 increased AML cell engraftment but not leukemic stem cell frequency.
	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]. Pabst C1, Krosi J1, Fares I1, Boucher G1, Ruel R1, Marinier A2, Lemieux S3, Hébert J4, Sauvageau G4. Identification of small molecules that support human leukemia stem cell activity ex vivo. Nat Methods. 2014 Apr;11(4):436-42.

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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