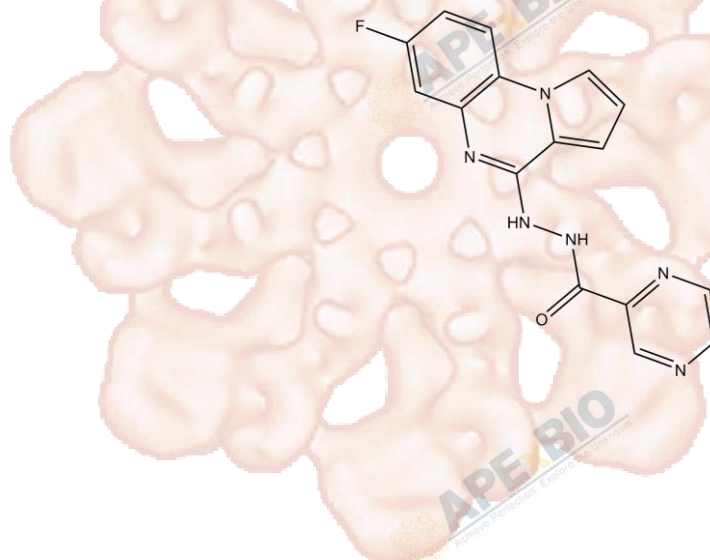


Product Data Sheet

SC 144

Cat. No.:	A2173
CAS No.:	895158-95-9
Formula:	C ₁₆ H ₁₁ FN ₆ O
M.Wt:	322.3
Synonyms:	
Target:	Others
Pathway:	Glycoprotein
Storage:	Store at -20°C



Solvent & Solubility

insoluble in EtOH; insoluble in H₂O; ≥16.1 mg/mL in DMSO

In Vitro

Preparing Stock Solutions	Solvent	Mass		
		1mg	5mg	10mg
	Concentration			
	1 mM	3.1027 mL	15.5135 mL	31.0270 mL
	5 mM	0.6205 mL	3.1027 mL	6.2054 mL
	10 mM	0.3103 mL	1.5513 mL	3.1027 mL

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

Biological Activity

Shortsummary

Gp130 inhibitor

IC₅₀ & Target

In Vitro

Cell Viability Assay

Cell Line:	OVCAR-8, OVCAR-5, OVCAR-3, Caov-3, SKOV-3, HEY and NCI/ADR-RES
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:	~ 10 μM; 96 hrs

	Applications:	SC144 treatment in vitro induced gp130 phosphorylation and deglycosylation, resulting in the downregulation of surface-bound gp130 and the abrogation of gp130-associated Stat3 activation. In addition, SC144 selectively inhibited the downstream signaling activation induced by gp130 substrates, including IL-6 and LIF. In OVCAR-8 cells, protein expression regulated by the gp130/Stat3 axis was also down-regulated after SC144 treatment, including Bcl-2, Bcl-XL, survivin, cyclin D1, MMP-7, gp130 and Ape1/Rel-1.
In Vivo	Animal experiment	
	Animal models:	OVCAR-8 xenograft mouse model
	Dosage form:	10 mg/kg; i.p. or p.o.; q.d.
	Applications:	In a mouse xenograft model of human ovarian cancer, SC144 significantly inhibited tumor growth. After the exposure to SC144 for 2 months, gp130, Bcl-2, Bcl-XL, MMP-7 and Ape1/Ref-1 protein levels were substantially decreased in the tumor site in the treatment group compared with the control group.
	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. Marie R.Mooney."Precision Medicine Approaches to Integrating Genomics with Cancer Therapy: Applications in Glioblastoma and Lymphoma." ProQuest LLC..2016

See more customer validations on www.apexbt.com.

References

[1]. Shili Xu, Fedora Grande, Antonio Garofalo, et al. Discovery of a Novel Orally Active Small-Molecule gp130 Inhibitor for the Treatment of Ovarian Cancer. Molecular Cancer Therapeutics. 2013 (12): 937-949.

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.



APExBIO Technology

www.apexbt.com

7505 Fannin street, Suite 410, Houston, TX 77054.

Tel: +1-832-696-8203 | Fax: +1-832-641-3177 | Email: info@apexbt.com

