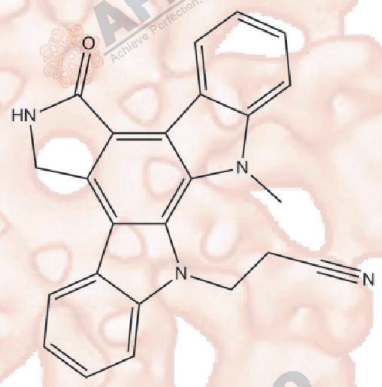
Product Data Sheet

Go 6976

Cat. No.:	A8341
CAS No.:	136194-77-9
Formula:	C24H18N4O
M.Wt:	378.43
Synonyms:	Go6976;Go-6976
Target:	TGF-β / Smad Signaling
Pathway:	PKC
Storage:	Desiccate at -20°C



Solvent & Solubility

In Vitro

≥15.77 mg/mL in DMSO

Preparing Stock Solutions

Concentration \ Mass / Solvent	1mg	5mg	10mg
1 mM	2.6425 mL	13.2125 mL	26.4250 mL
5 mM	0.5285 mL	2.6425 mL	5.2850 mL
10 mM	0.2642 mL	1.3212 mL	2.6425 mL

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

Biological Activity

Shortsummary	PKCα/PKCβ1 inhibitor
IC_{50} & Target	

In Vitro

Cell Viability Assay

Cell Line:	HEL 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:	4 h, 1 μM

	Applications:	Go 6976 is a selective inhibitor of the calcium-dependent isozymes of protein kinase C (PKC) and has a direct and potent inhibitory effect on JAK2 in vitro. Go 6976 also blocked signalling, proliferation and survival in cells expressing TEL-JAK2 fusion protein. In primary acute myeloid leukaemia cells, treatment with Go 6976 reduced STAT phosphorylation and constitutive STAT activity.
In Vivo	**Animal experiment**	
	Animal models:	6-8 week-old Balb/c mice
	Dosage form:	2.5 mg/kg, i.p.
	Applications:	Go 6976 significantly inhibited LPS-induced protein kinase D activation, relieved LPS/D-GalN-induced liver injury and improved the survival of LPS/D-GalN-administered mice. Go 6976 could also inhibit the activation of mitogen-activated protein kinases (MAPKs), reduce expression of tumor necrosis factor-a (TNF-α), and decrease apoptosis and myeloperoxidase (MPO) activity in liver of mice.
	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]. Grandage V L, Everington T, Linch D C, et al. Go 6976 is a potent inhibitor of the JAK 2 and FLT3 tyrosine kinases with significant activity in primary acute myeloid leukaemia cells[J]. British journal of haematology, 2006, 135(3): 303-316.
[2]. Duan G J, Zhu J, Xu C Y, et al. Protective effect of Go 6976, a PKD inhibitor, on LPS/d-GalN-induced acute liver injury in mice[J]. Inflammation research, 2011, 60(4): 357-366.

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. 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.

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