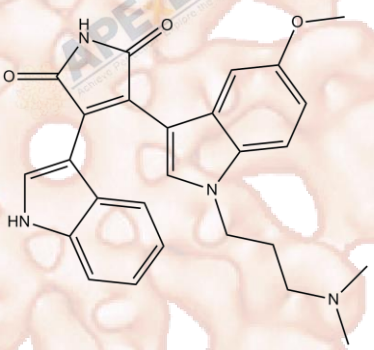
Product Data Sheet

Go 6983



Cat. No.:	A8343
CAS No.:	133053-19-7
Formula:	C26H26N4O3
M.Wt:	442.51
Synonyms:	Goe 6983;Go6983;Go-6983
Target:	TGF-β / Smad Signaling
Pathway:	PKC
Storage:	Store at -20°C

Solvent & Solubility

In Vitro

⩾22.15 mg/mL in DMSO; insoluble in EtOH; insoluble in H2O

Preparing Stock Solutions

Concentration \ Mass / Solvent	1mg	5mg	10mg
1 mM	2.2598 mL	11.2992 mL	22.5984 mL
5 mM	0.4520 mL	2.2598 mL	4.5197 mL
10 mM	0.2260 mL	1.1299 mL	2.2598 mL

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

Biological Activity

Shortsummary	pan-PKC inhibitor
IC_{50} & Target	6 nM (PKCγ), 7 nM (PKCα), 7 nM (PKCβ), 10 nM (PKCδ), 60 nM (PKCζ), 20 μM (PKCμ)

In Vitro

Cell Viability Assay

Cell Line:	ARCcPE 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:	200 and 1000 nM; 48 hrs

	Applications:	In ARCaPE cells, Go 6983 at the dose of 200 nM significantly inhibited the up-regulation of PKCs(PKCα, PKCβ and PKCγ) stimulated by the PMA treatment. In addition, Go 6983 showed complete inhibition at the dose of 1000 nM.
In Vivo	**Animal experiment**	
	Animal models:	Mice bearing B16BL6 tumors
	Dosage form:	22 μg/mouse, i.v.
	Applications:	In a mouse pulmonary B16BL6 tumor model, Go6983 at the dose of 22.0 μg/mouse significantly inhibited tumor metastasis by 51.2 %.
	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. Lee E, Wang J, et al. "DNMT1 Regulates Epithelial-Mesenchymal Transition and Cancer Stem Cells, Which Promotes Prostate Cancer Metastasis."Neoplasia. 2016 Sep;18(9):553-66.PMID:27659015

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References

[1]. Gschwendt, M., et al., Inhibition of protein kinase C mu by various inhibitors. Differentiation from protein kinase c isoenzymes. FEBS Lett, 1996. 392(2): p. 77-80.

[2]. He, H., et al., Phorbol ester phorbol-12-myristate-13-acetate induces epithelial to mesenchymal transition in human prostate cancer ARCaPE cells. Prostate, 2010. 70(10): p. 1119-26.

[3]. Kim HR, Lee KH, Park SJ, Kim SY, Yang YK, Tae J, Kim J. Anti-cancer activity and mechanistic features of a NK cell activating molecule. Cancer Immunol Immunother. 2009 Oct;58(10):1691-700.

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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