



# Data Sheet

Research Use Only

## Compound Name

Go 6983

## Catalog Number

SM20

## Alternative Names

Goe 6983, 1H-Pyrrole-2,5-dione, 3-[1-[3-(dimethylamino)propyl]-5-methoxy-1H-indol-3-yl]-4-(1H-indol-3-yl)-1H-pyrrole-2,5-dione

## Activity

Go 6983 is a protein kinase C (PKC) inhibitor for PKC $\alpha$ , PKC $\beta$ , PKC $\gamma$ , PKC $\delta$  and PKC $\zeta$ . This compound does not effectively inhibit PKC $\mu$  and therefore can be used to differentiate PKC $\mu$  from other isoforms.

## Effect

Go 6983 inhibits intracellular Ca<sup>2+</sup> accumulation, suggesting a mechanism for its vasodilator properties. The inhibition of PKC signaling is an efficient strategy to establish and maintain pluripotent rESCs and to facilitate reprogramming of rat embryonic fibroblasts to rat induced pluripotent stem cells.

## Purity

>98%

## CAS

133053-19-7

## Formula

C<sub>26</sub>H<sub>26</sub>N<sub>4</sub>O<sub>3</sub>

## Molecular Weight

442.51

## Solubility

DMSO

## Stability

Stable at -20 °C. Keep away from direct sunlight.

## References

1. Young, LG., et al. 2005. Cardiovasc Drug Rev. 23(3): 255-272. PMID: 16252018
2. Chen, J., et al. 2005. Mol Pharmacol. 67(1): 152-162. PMID: 15496505
3. Rajendran, G., et al. 2013. J Biol Chem. 288(34): 24351-24362. PMID: 23846691