## Gö6976

🗹 500 µg

#12060 Store at -20°C



 
 Support
 877-678-TECH (8324) info@cellsignal.com

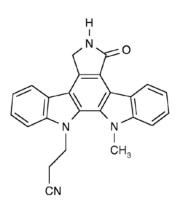
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**Background:** Gö6976 is an ATP-competitive PKC inhibitor specific for Ca<sup>2+</sup>-dependent PKCα (IC<sub>50</sub> = 2.3 nM) and PKCβ1 (IC<sub>50</sub> = 6.2 nM) isozymes (1). It is also a potent inhibitor of PKD (IC<sub>50</sub> = 20 nM) (2). Researchers have demonstrated that Gö6976 blocks JNK activation (3-5) and inhibits PKCα-mediated, TPA-stimulated phosphorylation of CREB at Ser133 (6,7). Gö6976 is also an effective inhibitor of the tyrosine kinases Jak2 and FLT3 (8), as well as TrkA and TrkB (9).

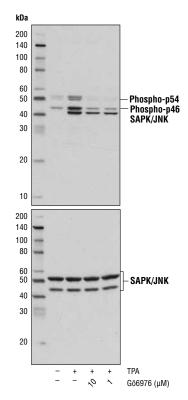




## Molecular Weight: 378.43 g/mol

## Purity: >99%

**Directions for Use:** Gö6976 is supplied as a lyophilized powder. For a 1 mM stock, reconstitute the 500  $\mu$ g in 1.32 ml DMSO. Working concentrations and length of treatment can vary depending on the desired effect, but it is typically used as a pretreatment at 0.1-10  $\mu$ M for 0.5-1 hr prior to treating with a stimulator or is used alone with varying treatment times lasting up to 24 hr.



Western blot analysis of extracts from Jurkat cells, serumstarved overnight and untreated or treated with TPA #4174 (100 nM, 15 min) either with or without Gö6976 pretreatment (1 hr) at the indicated concentrations, using Phospho-SAPK/JNK (Thr183/Tyr185) (81E11) Rabbit mAb #4668 (upper) or SAPK/ JNK (56G8) Rabbit mAb #9258 (lower). **Storage:** Store lyophilized or in solution at -20°C, desiccated. Protect from light. In lyophilized form, the chemical is stable for 24 months. Once in solution, use within 3 months to prevent loss of potency. Aliquot to avoid multiple freeze/thaw cycles.

## Background References:

- (1) Martiny-Baron, G. et al. (1993) J Biol Chem 268, 9194-7.
- (2) Gschwendt, M. et al. (1996) FEBS Lett 392, 77-80.
- (3) López-Bergami, P. et al. (2005) Mol Cell 19, 309-20.
- (4) Wen, J. et al. (2011) J Neuroinflammation 8, 38.
- (5) Lemonnier, J. et al. (2004) J Biol Chem 279, 259-64.
- (6) Chung, Y.W. et al. (2011) J Biol Chem 286, 29681-90.
- (7) Paruchuri, S. and Sjölander, A. (2003) *J Biol Chem* 278, 45577-85.
- (8) Grandage, V.L. et al. (2006) Br J Haematol 135, 303-16.
- (9) Behrens, M.M. et al. (1999) J Neurochem 72, 919-24.

 Applications Key:
 W—Western
 IP—Immunoprecipitation
 IHC—Immunohistochemistry
 ChIP—Chromatin Immunoprecipitation
 IF—Immunofluorescence
 F—Flow cytometry
 E-P—ELISA-Peptide

 Species Cross-Reactivity Key:
 H—human
 M—mouse
 R—rat
 Hm—hamster
 Mk—monkey
 Mi—mink
 C—chicken
 Dm—D. melanogaster
 X—Xenopus
 Z—zebrafish
 B—bovine

 Dg—dog
 Pg—pig
 Se—S. cerevisiae
 AII—all species expected
 Species enclosed in parentheses are predicted to react based on 100% homology.