

Store at  
-20C  
#12060**Gö6976**

500 µg



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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 Formula

C<sub>24</sub>H<sub>18</sub>N<sub>4</sub>O

## Molecular Weight

378.4 g/mol

## Purity

>99%

## CAS

136194-77-9

## Solubility

Soluble in DMSO at 25mg/ml.

## 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.

## Directions for Use

Gö6976 is supplied as a lyophilized powder. For a 1 mM stock, reconstitute the 500 µg 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 µM for 0.5-1 hr prior to treating with a stimulator or is used alone with varying treatment times lasting up to 24 hr. Soluble in DMSO at 25 mg/ml; very poorly soluble in ethanol and water with maximum solubility in water at ~1-5 µM.

## Background References

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