## **Revision** 1

Gö6976 - <sup>7</sup> gG			
	Orders:	877-616-CELL (2355) orders@cellsignal.com	
<b>Ο</b> 500 μg	Support:	877-678-TECH (8324)	
#12060 #1	Web:	info@cellsignal.com cellsignal.com	
#	3 Trask Lane   Danvers   Mas	sachusetts   01923   USA	
For Research Use Only. Not for Use in Diagnostic Procedures.			

Background       G66976 is an ATP-competitive PKC inhibitor specific for Ca <sup>2+</sup> dependent PKCa (IC <sub>50</sub> = 2.3 nM) and PKCβ1 (IC <sub>50</sub> = 6.2 nM) isogrames (1). It is also a potent inhibitor of PKD (IC <sub>60</sub> = 2.0 nM) (2). Researchers have demonstrated hat G605976 is also an effective inhibitor of the yrosine kinases jaloz and fL3 (B), as well as TKA and TKB (B).         Molecular Formula       C <sub>64</sub> H <sub>8</sub> N <sub>4</sub> O         Molecular Weight       378.4 g/mol         Purity       >99%         CAS       136194-77-9         Solubility       Solubility         Solubility       Solubility <th></th> <th></th>			
Molecular Weight         37.8.4 g/mol           Purity         >99%           CAS         136194-77-9           Solubility         Soluble in DMSO at 25mg/ml.           Storage         Store hypohilized 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 vay depending on the desired effect, but it is typically used as a pretreatment tat 0.1-10 µM for 0.5-1 hr prior to reating with a stimulator or is used alone with varying treatment time. Stimulator as 25 mg/mi, very poorly soluble in ethanol and water with maximum solubility in water at -15 µM.           Background References         1. Martiny-Baron, G. et al. (1993) / Biol Chem 279, 239-54.           3. Lopez-Bergami, P. et al. (2004) / Biol Chem 278, 45577-85.         2. Schwendt, M. et al. (1993) / Biol Chem 278, 45577-85.           4. Gong WW et al. (2011) / Biol Chem 278, 45577-85.         3. Grandage, V.L. et al. (2006) <i>B I Heuratori</i> 135, 303-16.           4. Identities and Patents         Cell Signaling Technology is a trademark of Cell Signaling Technology, Inc.           Limited Uses         Except as otherwise expressly agreed in a writing signed by a legally authorized representative of CST, it for following terms apply to Products provided by CST, its affiliaes or is distributors. Any Customer's terms and condi	Background	(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 PKC $\alpha$ -mediated, TPA-stimulated phosphorylation of CREB at Ser133 (6,7). Gö6976 is also an effective inhibitor of the tyrosine kinases	
Purity         >99%           CAS         136194-77-9           Solubility         Solubie in DMSO at 25mg/ml.           Storage         Store kyophilized 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         G66976 is supplied as a hyophilized powder. For a 1 mM stock, reconstitute the 500 µg in 1.32 mI 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 time slasting up to 24 hr. Soluble in DMSO at 25 mg/ml; very poorly soluble in tethanol and water with maximum solubility in water at ~1-5 µM.           Background References         1. Martiny-Baron, G. et al. (1993) / Biol Chem 278, 4914-7.           2. Getwendt, M. et al. (1996) / EBE ut 332, 778-0.         3. Löpez-Bergami, P. et al. (2005) Mol Cell 19, 309-20.           4. Wine, J. et al. (2011) / Biol Chem 278, 45577-85.         8. Grandage, V.L. et al. (2001) / Biol Chem 278, 45577-85.           9. Bethrens, M.M. et al. (1999) / Haematol 135, 303-16.         9. Bethrens, M.M. et al. (1999) / Neurochem 72, 919-24.           Trademarks and Patents         Cell Signaling Technology is a trademark of Cell Signaling Technology, Inc.           All other trademarks are the property of their respective owners. Visit cellsignal.com/trademarks for more forecor effect.           I	Molecular Formula	C <sub>24</sub> H <sub>18</sub> N <sub>4</sub> O	
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