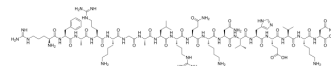


Protein Kinase C (19-36)

Cat. No.: HY-P1401
CAS No.: 113731-96-7
Molecular Formula: C₉₃H₁₅₉N₃₅O₂₄
Molecular Weight: 2151.48
Sequence: Arg-PheAla-Arg-Lys-Gly-Ala-Leu-Arg-Gln-Lys-Asn-Val-His-Glu-Val-Lys-Asn
Sequence Shortening: RFARKGALRQKNVHEVKN
Target: PKC
Pathway: Epigenetics; TGF-beta/Smad
Storage: Sealed storage, away from moisture and light, under nitrogen



Powder -80°C 2 years
 -20°C 1 year

* In solvent : -80°C, 6 months; -20°C, 1 month (sealed storage, away from moisture and light, under nitrogen)

SOLVENT & SOLUBILITY

In Vitro	H ₂ O : 100 mg/mL (46.48 mM; Need ultrasonic)																													
	Preparing Stock Solutions	<table border="1"> <thead> <tr> <th>Solvent</th> <th>Mass</th> <th>1 mg</th> <th>5 mg</th> <th>10 mg</th> </tr> </thead> <tbody> <tr> <td>Concentration</td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>1 mM</td> <td></td> <td>0.4648 mL</td> <td>2.3240 mL</td> <td>4.6480 mL</td> </tr> <tr> <td>5 mM</td> <td></td> <td>0.0930 mL</td> <td>0.4648 mL</td> <td>0.9296 mL</td> </tr> <tr> <td>10 mM</td> <td></td> <td>0.0465 mL</td> <td>0.2324 mL</td> <td>0.4648 mL</td> </tr> </tbody> </table>	Solvent	Mass	1 mg	5 mg	10 mg	Concentration					1 mM		0.4648 mL	2.3240 mL	4.6480 mL	5 mM		0.0930 mL	0.4648 mL	0.9296 mL	10 mM		0.0465 mL	0.2324 mL	0.4648 mL			
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Please refer to the solubility information to select the appropriate solvent.																														
In Vivo	1. Add each solvent one by one: PBS Solubility: 10 mg/mL (4.65 mM); Clear solution; Need ultrasonic																													

BIOLOGICAL ACTIVITY

Description	Protein Kinase C (19-36) is a pseudosubstrate peptide inhibitor of protein kinase C (PKC), with an IC ₅₀ of 0.18 μM. Protein Kinase C (19-36) markedly attenuated vascular hyperproliferation and hypertrophy as well as glucose-induced suppression of natriuretic peptide receptor response ^[1] .
IC ₅₀ & Target	IC ₅₀ : 0.18 μM (protein kinase C) ^[1] .

REFERENCES

[1]. Yasunari K, et al. Possible involvement of phospholipase D and protein kinase C in vascular growth induced by elevated glucose concentration. Hypertension. 1996 Aug;28(2):159-68.

Caution: Product has not been fully validated for medical applications. For research use only.

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