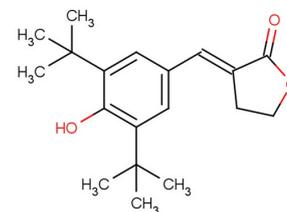


## Data Sheet (Cat.No.T10098)

PGS-IN-1

### Chemical Properties

CAS No.:	102271-49-8
Formula:	C <sub>19</sub> H <sub>26</sub> O <sub>3</sub>
Molecular Weight:	302.41
Appearance:	N/A
Storage:	0-4°C for short term (days to weeks), or -20°C for long term (months).



### Biological Description

Description	PGS-IN-1 is a potent inhibitor of prostaglandin synthetase (PGS; IC <sub>50</sub> : 0.28 μM) and also inhibits 5-lipoxygenase (IC <sub>50</sub> : 1.05 μM).
Targets(IC <sub>50</sub> )	5-Lipoxygenase: 1.05 μM
In vitro	PGS-IN-1 (KME-4) is the trans isomer. PGS-IN-1 exhibits potent anti-inflammatory and PGS inhibitory activity (IC <sub>50</sub> =0.28 μM). PGS-IN-1 also shows potent inhibitory activity against 5-lipoxygenase (IC <sub>50</sub> : 1.05 μM).

### Solubility Information

Solubility	< 1 mg/ml refers to the product slightly soluble or insoluble
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#### Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	3.307 mL	16.534 mL	33.068 mL
5 mM	0.661 mL	3.307 mL	6.614 mL
10 mM	0.331 mL	1.653 mL	3.307 mL
50 mM	0.066 mL	0.331 mL	0.661 mL

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. The storage conditions and period of the stock solution: - 80 °C for 6 months; - 20 °C for 1 month. Please use it as soon as possible.

#### Reference

1. Katsumi I, et al. Studies on styrene derivatives. I. Synthesis and antiinflammatory activities of alpha-benzylidene-gamma-butyrolactone derivatives. Chem Pharm Bull (Tokyo). 1986 Jan;34(1):121-9.

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