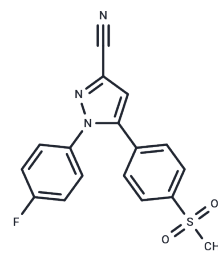


## COX-2-IN-2

## Chemical Properties

CAS No. : 134729-13-8  
 Formula: C<sub>17</sub>H<sub>12</sub>FN<sub>3</sub>O<sub>2</sub>S  
 Molecular Weight: 341.36  
 Storage: Powder: -20°C for 3 years | In solvent: -80°C for 1 year  
 Actual storage temperature shall be subject to the COA.



## Biological Description

Description	COX-2-IN-2, a selective inducible COX2 inhibitor, exhibits potent inhibition with an IC <sub>50</sub> of 0.24 μM. Meanwhile, COX-2-IN-1 functions as an anti-inflammatory agent, demonstrating both anti-inflammatory and analgesic activities.
Targets(IC <sub>50</sub> )	COX
In vitro	COX-2-IN-2 demonstrates no inhibition of COX-1, even at a concentration of 100μM[1].
In vivo	COX-2-IN-2 exhibits oral ED <sub>50</sub> values of 0.030 mg/kg for adjuvant-induced arthritis and 0.47 mg/kg for collagen-induced arthritis, with an ED <sub>30</sub> of 7.4 mg/kg in the yeast-induced hyperalgesia (Randall-Selitto) assay, demonstrating good analgesic activity and no ulcerogenicity[1].

## Solubility Information

Solubility	DMSO: 150 mg/mL (439.42 mM),Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
In vivo Formulation	10% DMSO+90% Corn Oil: 2 mg/mL (5.86 mM),Sonication is recommended. <i>Please add the solvents sequentially, clarifying the solution as much as possible before adding the next one. Dissolve by heating and/or sonication if necessary. Working solution is recommended to be prepared and used immediately. The formulation provided above is for reference purposes only. In vivo formulations may vary and should be modified based on specific experimental conditions.</i>

### Preparing Stock Solutions

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	<b>1mg</b>	<b>5mg</b>	<b>10mg</b>
1 mM	2.9295 mL	14.6473 mL	29.2946 mL
5 mM	0.5859 mL	2.9295 mL	5.8589 mL
10 mM	0.2929 mL	1.4647 mL	2.9295 mL
50 mM	0.0586 mL	0.2929 mL	0.5859 mL

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Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. Please use it as soon as possible.

Note: The dilution table applies only to solid products. For liquid products, please calculate the stock solution based on the stated concentration and/or density.

### Reference

Tsuji K, et al. Studies on anti-inflammatory agents. IV. Synthesis and pharmacological properties of 1,5-diarylpyrazoles and related derivatives. Chem Pharm Bull (1997), 45(6), 987-995.

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