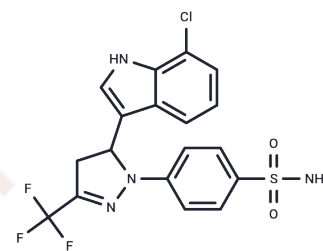


## COX-2-IN-1

## Chemical Properties

CAS No. :	787623-48-7
Formula:	C <sub>18</sub> H <sub>14</sub> ClF <sub>3</sub> N <sub>4</sub> O <sub>2</sub> S
Molecular Weight:	442.84
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-1 is a potent and selective COX-2 inhibitor (IC <sub>50</sub> : 3.9 μM).
Targets(IC <sub>50</sub> )	COX
In vitro	COX-2-IN-1(compound 5f) is an inhibitor of COX-1 and COX-2 with IC <sub>50</sub> s of >100 and 3.9 μM, respectively.

## Solubility Information

Solubility	DMSO: 50 mg/mL (112.91 mM),Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
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## Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.2582 mL	11.2908 mL	22.5815 mL
5 mM	0.4516 mL	2.2582 mL	4.5163 mL
10 mM	0.2258 mL	1.1291 mL	2.2582 mL
50 mM	0.0452 mL	0.2258 mL	0.4516 mL

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

dy MV, et al. Design, synthesis, and biological evaluation of 1-(4-sulfamylphenyl)-3-trifluoromethyl-5-indolyl pyrazolines as cyclooxygenase-2 (COX-2) and lipoxygenase (LOX) inhibitors. Bioorg Med Chem. 2008 Apr 1;16(7): 3907-16.

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Tel:781-999-4286 E\_mail:info@targetmol.com Address:34 Washington Street,Wellesley Hills,MA 02481