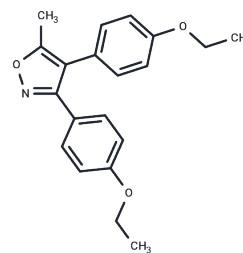


## COX-1-IN-1

## Chemical Properties

CAS No. :	1369503-03-6
Formula:	C <sub>20</sub> H <sub>21</sub> NO <sub>3</sub>
Molecular Weight:	323.39
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-1-IN-1 (compound 15a) selectively inhibits cyclooxygenase (COX), exhibiting an IC <sub>50</sub> of 0.23 μM for COX-1 and greater than 50 μM for COX-2, resulting in a selectivity index (COX-2 IC <sub>50</sub> /COX-1 IC <sub>50</sub> ) of 217. Additionally, COX-1-IN-1 effectively inhibits platelet aggregation [1].
Targets(IC <sub>50</sub> )	COX
In vitro	COX-1-IN-1 inhibits arachidonic acid (AA)-induced platelet aggregation with an IC <sub>50</sub> value of 1 μM and exhibits low cytotoxicity toward cells and platelets at 100 μM over a 3-hour incubation period [1]. Cell Cytotoxicity Assay: Cell Line: Vero; Concentration: 100 μM; Incubation Time: 3 h; Result: Demonstrated platelet and cell viabilities above 90%.

## Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	3.0922 mL	15.4612 mL	30.9224 mL
5 mM	0.6184 mL	3.0922 mL	6.1845 mL
10 mM	0.3092 mL	1.5461 mL	3.0922 mL
50 mM	0.0618 mL	0.3092 mL	0.6184 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.

**Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins**

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