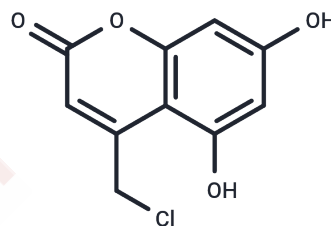


## DNA polymerase-IN-1

## Chemical Properties

CAS No. :	809234-33-1
Formula:	C <sub>10</sub> H <sub>7</sub> ClO <sub>4</sub>
Molecular Weight:	226.61
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	DNA polymerase-IN-1, a DNA polymerase inhibitor, exhibited antiproliferative activity against tumor cells with a half-inhibitory concentration (IC <sub>50</sub> ) of 20.7 μM. DNA polymerase-IN-1 inhibited Taq DNA polymerase with an IC <sub>50</sub> of less than 250 μM. DNA polymerase-IN-1 was shown to inhibit Taq DNA polymerase by RT- DNA polymerase-IN-1 showed antiretroviral activity in vitro by RT-PCR assay and can be used to study oxidative damage and colorectal cancer.
Targets(IC <sub>50</sub> )	Antiviral,DNA/RNA Synthesis

## Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	4.4129 mL	22.0643 mL	44.1287 mL
5 mM	0.8826 mL	4.4129 mL	8.8257 mL
10 mM	0.4413 mL	2.2064 mL	4.4129 mL
50 mM	0.0883 mL	0.4413 mL	0.8826 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

Bruna-Haupt EF, et al. Synthesis of Structurally Related Coumarin Derivatives as Antiproliferative Agents. ACS Omega. 2023 Jul 13;8(29):26479-26496.

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