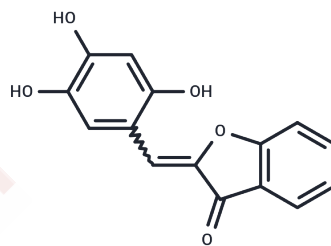


HA5

## Chemical Properties

CAS No. :	2378406-17-6
Formula:	C <sub>15</sub> H <sub>10</sub> O <sub>5</sub>
Molecular Weight:	270.24
Storage:	Store at low temperature Powder: -20°C for 3 years   In solvent: -80°C for 1 year <small>Actual storage temperature shall be subject to the COA.</small>



## Biological Description

Description	HA5 has antimicrobial activity and inhibits the biofilm formation of Streptococcus mutans with an IC <sub>50</sub> value of 6.42 μM. HA5 inhibits the production of Streptococcus mutans dextran and the level of eDNA, but it does not inhibit the growth of Streptococcus mutans.
Targets(IC <sub>50</sub> )	Antibacterial

## Solubility Information

Solubility	DMSO: 50 mg/mL (185.02 mM), Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
------------	---

## Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	3.7004 mL	18.5021 mL	37.0041 mL
5 mM	0.7401 mL	3.7004 mL	7.4008 mL
10 mM	0.370 mL	1.8502 mL	3.7004 mL
50 mM	0.074 mL	0.370 mL	0.7401 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

Ahirwar P, et al. Hydrogel-Encapsulated Biofilm Inhibitors Abrogate the Cariogenic Activity of Streptococcus mutans. J Med Chem. 2023 Jun 22;66(12):7909-7925.

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

This product is for Research Use Only · Not for Human or Veterinary or Therapeutic Use

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