

Product Name: CMA

Catalog No.: 6677

Batch No.: 1

CAS Number: 38609-97-1

IUPAC Name: 9-Oxo-10(9*H*)-acridineacetic acid

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: C₁₅H₁₁NO₃·¹/₄H₂O

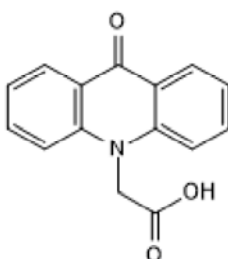
Batch Molecular Weight: 257.75

Physical Appearance: Yellow solid

Solubility: DMSO to 100 mM

Storage: Store at +4°C

Batch Molecular Structure:



2. ANALYTICAL DATA

HPLC: Shows 99.5% purity

¹H NMR: Consistent with structure

Mass Spectrum: Consistent with structure

Microanalysis:

	Carbon	Hydrogen	Nitrogen
Theoretical	69.9	4.5	5.43
Found	70.28	4.3	5.52

Caution - Not Fully Tested • Research Use Only • Not For Human or Veterinary Use

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Product Name: CMA

Catalog No.: 6677

Batch No.: 1

CAS Number: 38609-97-1

IUPAC Name: 9-Oxo-10(9H)-acridineacetic acid

Description:

STING agonist; murine-selective ($K_d = 3.5 \mu\text{M}$). Triggers type I IFN response in murine macrophages, with no effect on human STING signaling.

Physical and Chemical Properties:

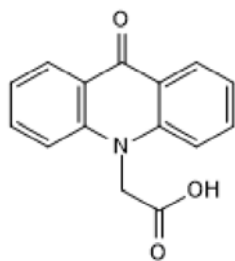
Batch Molecular Formula: $\text{C}_{15}\text{H}_{11}\text{NO}_3 \cdot \frac{1}{4}\text{H}_2\text{O}$

Batch Molecular Weight: 257.75

Physical Appearance: Yellow solid

Minimum Purity: >98%

Batch Molecular Structure:



Storage: Store at +4°C

Solubility & Usage Info:

DMSO to 100 mM

Stability and Solubility Advice:

Some solutions can be difficult to obtain and can be encouraged by rapid stirring, sonication or gentle warming (in a 45-60°C water bath).

Information concerning product stability, particularly in solution, has rarely been reported and in most cases we can only offer a general guide. Our standard recommendations are:

SOLIDS: Provided storage is as stated on the product label and the vial is kept tightly sealed, the product can be stored for up to 6 months from date of receipt.

SOLUTIONS: We recommend that stock solutions, once prepared, are stored aliquoted in tightly sealed vials at -20°C or below and used within 1 month. Wherever possible solutions should be made up and used on the same day.

References:

Haag *et al* (2018) Targeting STING with covalent small-molecule inhibitors. *Nature* **559** 269. PMID: 29973723.

Zhang *et al* (2015) Rat and human STINGs profile similarly towards anticancer/antiviral compounds. *Sci. Rep.* **5** 18035. PMID: 26669264.

Cavlar *et al* (2013) Species-specific detection of the antiviral small-molecule compound CMA by STING. *EMBO J.* **32** 1440. PMID: 23604073.

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