

# Certificate of Analysis

**Product Name:** ER 27319 maleate

**Catalog No.:** 2471

**Batch No.:** 1

CAS Number: 1204480-26-1

IUPAC Name: 10-(3-Aminopropyl)-3,4-dimethyl-9(10*H*)-acridinone maleate

## 1. PHYSICAL AND CHEMICAL PROPERTIES

**Batch Molecular Formula:** C<sub>18</sub>H<sub>20</sub>N<sub>2</sub>O.C<sub>4</sub>H<sub>4</sub>O<sub>4</sub>

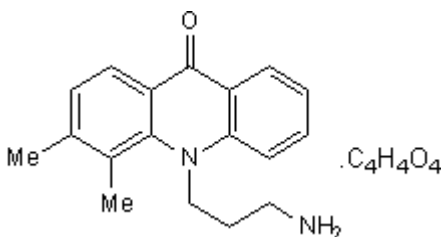
**Batch Molecular Weight:** 396.17

**Physical Appearance:** Yellow solid

**Solubility:** water to 75 mM  
DMSO to 100 mM

**Storage:** Desiccate at +4°C

**Batch Molecular Structure:**



## 2. ANALYTICAL DATA

**TLC:** R<sub>f</sub> = 0.1 (Chloroform:Methanol [10:1])

**HPLC:** Shows >99.4% purity

**<sup>1</sup>H NMR:** Consistent with structure

**Mass Spectrum:** Consistent with structure

**Microanalysis:**

	Carbon	Hydrogen	Nitrogen
Theoretical	66.65	6.1	7.06
Found	66.44	6.04	6.96

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

**Product Name:** ER 27319 maleate

**Catalog No.:** 2471

**Batch No.:** 1

CAS Number: 1204480-26-1

IUPAC Name: 10-(3-Aminopropyl)-3,4-dimethyl-9(10*H*)-acridinone maleate

**Description:**

Selective inhibitor of Syk kinase. Inhibits tyrosine phosphorylation of Syk initiated by the engagement of FcεRI in rat and human mast cells. Results in the abrogation of degranulation, TNF-α production (IC<sub>50</sub> = 10 μM) and other related signaling events.

**Physical and Chemical Properties:**

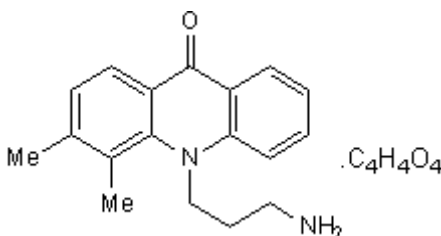
Batch Molecular Formula: C<sub>18</sub>H<sub>20</sub>N<sub>2</sub>O.C<sub>4</sub>H<sub>4</sub>O<sub>4</sub>

Batch Molecular Weight: 396.17

Physical Appearance: Yellow solid

**Minimum Purity:** >99%

**Batch Molecular Structure:**



**Storage:** Desiccate at +4°C

**Solubility & Usage Info:**

water to 75 mM  
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:**

**Moriya et al (1997)** ER-27319, an acridone-related compound, inhibits release of antigen-induced allergic mediators from mast cells by selective inhibition of Fcε receptor I-mediated activation of Syk. *Proc.Natl.Acad.Sci.USA* **94** 12539.

**Luskova and Draber (2004)** Modulation of the Fcε receptor I signaling by tyrosine kinase inhibitors: search for therapeutic targets of inflammatory and allergy diseases. *Curr.Pharm.Des.* **10** 1727. PMID: 15180535.

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

**bio-techne.com**

info@bio-techne.com

techsupport@bio-techne.com

**North America**

Tel: (800) 343 7475

**China**

info.cn@bio-techne.com

Tel: +86 (21) 52380373

**Europe Middle East Africa**

Tel: +44 (0)1235 529449

**Rest of World**

www.tocris.com/distributors

Tel: +1 612 379 2956