

**Product Name:** SCH 79797 dihydrochloride

**Catalog No.:** 1592

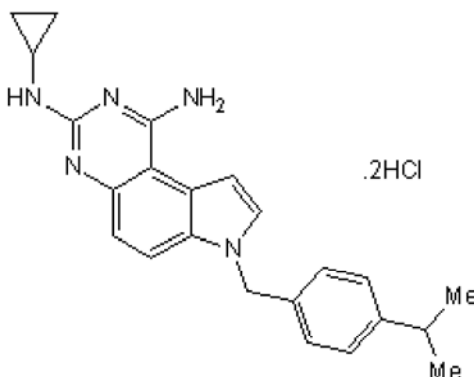
**Batch No.:** 7

CAS Number: 1216720-69-2

IUPAC Name: *N*<sup>3</sup>-Cyclopropyl-7-[[4-(1-methylethyl)phenyl]methyl]-7*H*-pyrrolo[3,2-*f*]quinazoline-1,3-diamine dihydrochloride

**1. PHYSICAL AND CHEMICAL PROPERTIES**

**Batch Molecular Formula:** C<sub>23</sub>H<sub>25</sub>N<sub>5</sub>.2HCl  
**Batch Molecular Weight:** 444.41  
**Physical Appearance:** Yellow solid  
**Solubility:** ethanol to 5 mM  
DMSO to 50 mM  
**Storage:** Desiccate at RT  
**Batch Molecular Structure:**



**2. ANALYTICAL DATA**

**HPLC:** Shows 99.0% purity  
**<sup>1</sup>H NMR:** Consistent with structure  
**Mass Spectrum:** Consistent with structure

**Microanalysis:**

	Carbon	Hydrogen	Nitrogen	Chlorine
Theoretical	62.16	6.12	15.76	15.96
Found	61.99	6.02	15.84	16.34

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

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**Description:**

Potent, selective non-peptide PAR<sub>1</sub> receptor antagonist (IC<sub>50</sub> = 70 nM). Inhibits haTRAP-induced- but not γ-thrombin-, ADP- or collagen-induced human platelet aggregation. Selectively blocks PAR<sub>1</sub> agonist- or thrombin-induced increases in cytosolic Ca<sup>2+</sup> in vascular smooth muscle cells. Also broad spectrum antibiotic. Kills bacteria by a dual action of inhibiting dihydrofolate reductase and interfering with bacterial cell membrane integrity.

**Physical and Chemical Properties:**

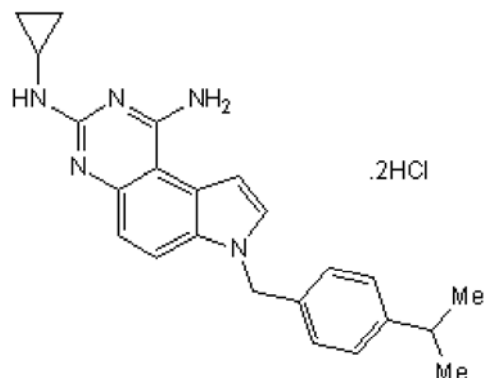
Batch Molecular Formula: C<sub>23</sub>H<sub>25</sub>N<sub>5</sub>.2HCl

Batch Molecular Weight: 444.41

Physical Appearance: Yellow solid

**Minimum Purity:** ≥99%

**Batch Molecular Structure:**



**References:**

**Martin et al** (2020) A dual-mechanism antibiotic kills Gram-negative bacteria and avoids drug resistance. *Cell* **S0092-8674** 30567. PMID: 32497502.

**Lidington et al** (2005) A role for proteinase-activated receptor 2 and PKC-ε in thrombin-mediated induction of decay-accelerating factor on human endothelial cells. *Am.J.Physiol.Cell Physiol.* **289** C1437. PMID: 16079188.

**Ahn et al** (2000) Inhibition of cellular action of thrombin by *N*<sup>3</sup>-cyclopropyl-7-[[4-(1-methylethyl)phenyl]methyl]-7*H*-pyrrolo[3,2-*f*]quinazoline-1,3-diamine (SCH 79797), a nonpeptide thrombin receptor antagonist. *Biochem.Pharmacol.* **60** 1425. PMID: 11020444.

**Storage:** Desiccate at RT

**Solubility & Usage Info:**

ethanol to 5 mM

DMSO to 50 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.

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