

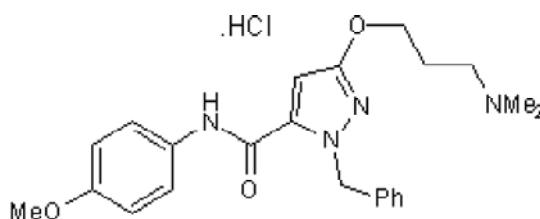
## Certificate of Analysis

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**Product Name:** CFM 1571 hydrochloride **Catalog No.:** 2586 **Batch No.:** 1  
**CAS Number:** 1215548-30-3  
**IUPAC Name:** 3-[3-(Dimethylamino)propoxy]-N-(4-methoxyphenyl)-1-(phenylmethyl)-1H-pyrazole-5-carboxamide hydrochloride

### 1. PHYSICAL AND CHEMICAL PROPERTIES

**Batch Molecular Formula:** C<sub>23</sub>H<sub>28</sub>N<sub>4</sub>O<sub>3</sub>.HCl  
**Batch Molecular Weight:** 444.95  
**Physical Appearance:** White crystalline solid  
**Solubility:** water to 100 mM  
DMSO to 100 mM  
**Storage:** Store at +4°C  
**Batch Molecular Structure:**



### 2. ANALYTICAL DATA

**TLC:** R<sub>f</sub> = 0.46 (Dichloromethane:Methanol [4:1])  
**HPLC:** Shows 99.7% purity  
**<sup>1</sup>H NMR:** Consistent with structure  
**Mass Spectrum:** Consistent with structure

**Microanalysis:**

	Carbon	Hydrogen	Nitrogen
Theoretical	62.08	6.57	12.59
Found	62.1	6.72	12.57

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**Description:**

Soluble guanylyl cyclase (sGC) activator ( $EC_{50} = 5.49 \mu\text{M}$ ). Does not activate adenylyl cyclase, shows no significant inhibition of phosphodiesterases and displays minimal inhibition of iNOS (25%) and nNOS (17%). Inhibits collagen-stimulated platelet aggregation in vitro ( $IC_{50} = 2.84 \mu\text{M}$ ).

**Physical and Chemical Properties:**

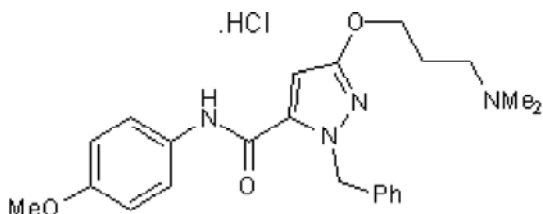
Batch Molecular Formula:  $C_{23}H_{28}N_4O_3 \cdot HCl$

Batch Molecular Weight: 444.95

Physical Appearance: White crystalline solid

**Minimum Purity:** >99%

**Batch Molecular Structure:**



**Storage:** Store at +4°C

**Solubility & Usage Info:**

water to 100 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.

**Other Information:**

**INFORMATION FOR CUSTOMERS IN THE UK ONLY**

This product is a Schedule 1 Home Office controlled substance and customers in the UK are required to hold the relevant licence or be exempt from restrictions in order to purchase and possess this material.

**References:**

**Evgenov et al** (2006) NO-independent stimulators and activators of soluble guanylate cyclase: discovery and therapeutic potential. *Nat.Rev.Drug Discov.* **5** 755. PMID: 16955067.

**Selwood et al** (2001) Synthesis and biological evaluation of novel pyrazoles and indazoles as activators of the nitric oxide receptor, soluble guanylate cyclase. *J.Med.Chem.* **44** 78. PMID: 11141091.

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