

Product Name: A 350619 hydrochloride

Catalog No.: 2753

Batch No.: 2

CAS Number: 1217201-17-6

IUPAC Name: 3-[2-[(4-Chlorophenyl)thiophenyl]-N-[4-(dimethylamino)butyl]-2-propenamide hydrochloride

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: C₂₁H₂₅ClN₂OS.HCl

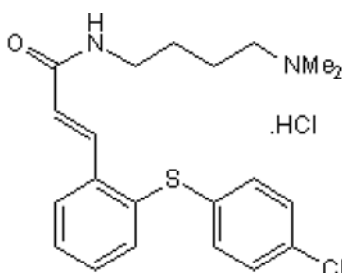
Batch Molecular Weight: 425.41

Physical Appearance: Off White solid

Solubility: water to 100 mM

Storage: Store at +4°C

Batch Molecular Structure:



2. ANALYTICAL DATA

HPLC: Shows 99% purity

¹H NMR: Consistent with structure

Mass Spectrum: Consistent with structure

Microanalysis:

	Carbon	Hydrogen	Nitrogen
Theoretical	59.29	6.16	6.58
Found	59.08	6.2	6.56

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

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Description:

Activator of soluble guanylyl cyclase (sGC). Activates basal sGC and synergistically activates sGC in the presence of NO. Relaxes cavernosum smooth muscle in vitro and induces penile erections in rats. Induces a sustained increase in skin blood flow in vivo.

Physical and Chemical Properties:

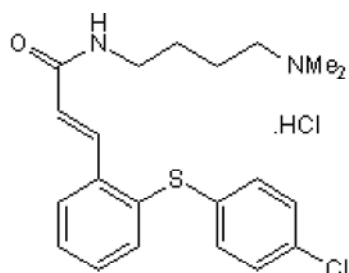
Batch Molecular Formula: C₂₁H₂₅ClN₂OS.HCl

Batch Molecular Weight: 425.41

Physical Appearance: Off White solid

Minimum Purity: >99%

Batch Molecular Structure:



Storage: Store at +4°C

Solubility & Usage Info:

water 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:

Kotzki et al (2013) Anodal iontophoresis of a soluble guanylate cyclase stimulator induces a sustained increase in skin blood flow in rats. *J.Pharmacol.Exp.Ther.* **346** 424. PMID: 23838678.

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.

Miller et al (2003) A-350619: a novel activator of soluble guanylyl cyclase. *Life Sci.* **72** 1015. PMID: 12495780.

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