

Product Name: BAY 58-2667 hydrochloride

Catalog No.: 6052

Batch No.: 3

CAS Number: 646995-35-9

IUPAC Name: 4-[[[4-(4-Carboxybutyl)[2-[2-[[4-(2-phenylethyl)phenyl]methoxy]phenyl]ethyl]amino]methyl]benzoic acid hydrochloride

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: C₃₆H₃₉NO₅.HCl.¼H₂O

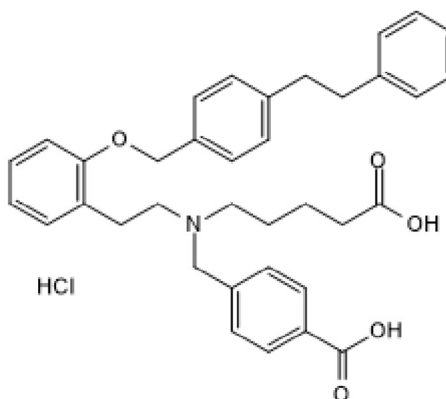
Batch Molecular Weight: 606.66

Physical Appearance: White solid

Solubility: DMSO to 100 mM

Storage: Store at -20°C

Batch Molecular Structure:



2. ANALYTICAL DATA

HPLC: Shows 98.8% purity

¹H NMR: Consistent with structure

Mass Spectrum: Consistent with structure

Microanalysis:

	Carbon	Hydrogen	Nitrogen
Theoretical	71.27	6.73	2.31
Found	70.59	6.69	2.43

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Description:

BAY 58-2667 hydrochloride is a potent soluble guanylyl cyclase (sGC) activator ($EC_{50} = 6.4$ nM). Binds heme-free sGC. Exhibits antihypertensive effects in vivo.

Physical and Chemical Properties:

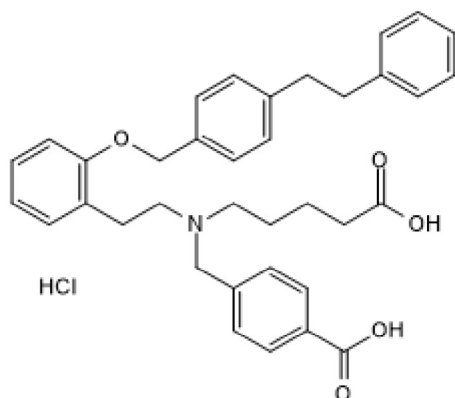
Batch Molecular Formula: $C_{36}H_{39}NO_5 \cdot HCl \cdot \frac{1}{4}H_2O$

Batch Molecular Weight: 606.66

Physical Appearance: White solid

Minimum Purity: $\geq 98\%$

Batch Molecular Structure:



Storage: Store at $-20^{\circ}C$

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 $45-60^{\circ}C$ water bath).

Information concerning product stability, particularly in solution, has rarely been reported and in most cases we can only offer a general guide. *Unless contradicted by product-specific protocols or instructions, our standard recommendations apply:

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 $-20^{\circ}C$ or below and used within 1 month. Wherever possible solutions should be made up and used on the same day.

References:

Roy et al (2008) Probing the presence of the ligand-binding haem in cellular nitric oxide receptors. *Br.J.Pharmacol.* **153** 1495. PMID: 18204474.

Stasch et al (2006) Targeting the heme-oxidized nitric oxide receptor for selective vasodilatation of diseased blood vessels. *J.Clin.Invest.* **116** 2552. PMID: 16955146.

Stasch et al (2002) NO- and haem-independent activation of soluble guanylyl cyclase: molecular basis and cardiovascular implications of a new pharmacological principle. *Br.J.Pharmacol.* **136** 773. PMID: 12086987.

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