

**Product Name:** BAY 58-2667 hydrochloride

**Catalog No.:** 6052

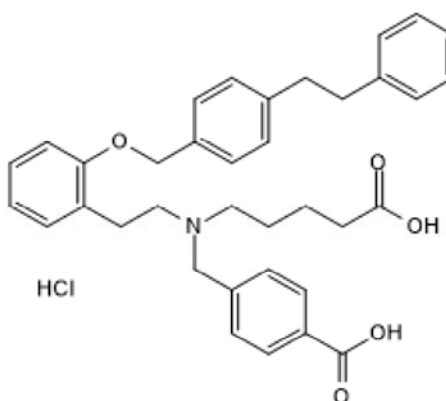
**Batch No.:** 2

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:** C<sub>36</sub>H<sub>39</sub>NO<sub>5</sub>.HCl  
**Batch Molecular Weight:** 602.16  
**Physical Appearance:** White solid  
**Solubility:** DMSO to 100 mM  
**Storage:** Store at -20°C  
**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
Theoretical	71.81	6.7	2.33
Found	71.98	6.99	2.41

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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:**

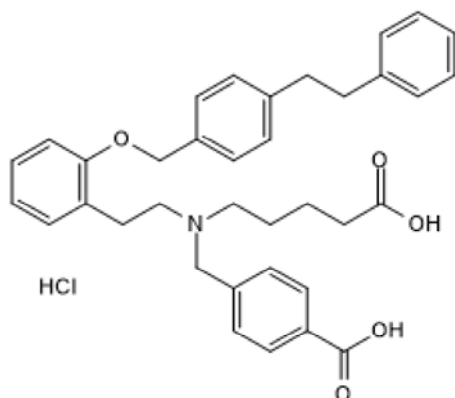
Batch Molecular Formula:  $C_{36}H_{39}NO_5 \cdot HCl$

Batch Molecular Weight: 602.16

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. 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  $-20^{\circ}C$  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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