

Product Name: EMD 66684

Catalog No.: 1849

Batch No.: 2

CAS Number: 1216884-39-7

IUPAC Name: 2-Butyl-3,4-dihydro-*N,N*-dimethyl-4-oxo-3-[[2'-(1*H*-tetrazol-5-yl)[1,1'-biphenyl-4-yl]methyl]-5*H*-imidazo[4,5-*c*]pyridine-5-acetamide hydrochloride

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: C₂₈H₃₀N₈O₂·HCl·H₂O

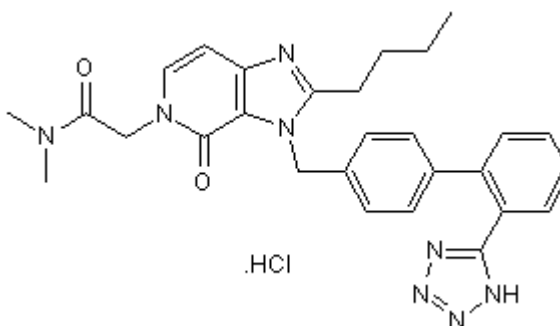
Batch Molecular Weight: 565.07

Physical Appearance: Pale yellow solid

Solubility: DMSO to 50 mM
ethanol to 50 mM

Storage: Desiccate at +4°C

Batch Molecular Structure:



2. ANALYTICAL DATA

TLC: R_f = 0.13 (Chloroform:Methanol [9:1])

HPLC: Shows 99.7% purity

¹H NMR: Consistent with structure

Mass Spectrum: Consistent with structure

Microanalysis:

	Carbon	Hydrogen	Nitrogen	Chlorine
Theoretical	59.52	5.89	19.83	6.27
Found	59.27	5.67	20.11	6.28

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Description:

Highly potent and very selective non-peptide angiotensin AT₁ receptor antagonist (IC₅₀ values are 0.7 and > 10000 nM for AT₁ and AT₂ receptors respectively). Potently inhibits angiotensin II-induced contractions in isolated rabbit aorta (IC₅₀ = 0.2 nM) and reduces blood pressure in hypertensive rats.

Physical and Chemical Properties:

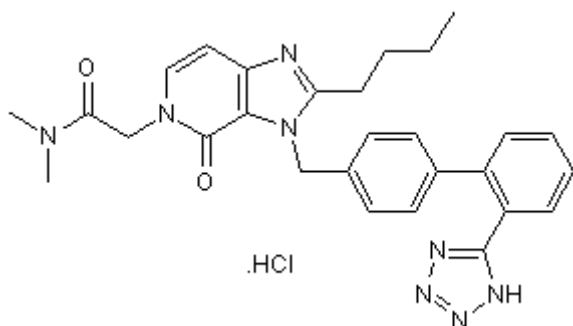
Batch Molecular Formula: C₂₈H₃₀N₈O₂.HCl.H₂O

Batch Molecular Weight: 565.07

Physical Appearance: Pale yellow solid

Minimum Purity: >98%

Batch Molecular Structure:



Storage: Desiccate at +4°C

Solubility & Usage Info:

DMSO to 50 mM
ethanol 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.

References:

Mederski et al (1994) Non-peptide angiotensin II receptor antagonists: synthesis and biological activity of a series of novel 4,5-dihydro-4-oxo-3*H*-imidazo[4,5-*c*]pyridine derivatives. *J.Med.Chem.* **37** 1632. PMID: 8201597.

Mederski et al (1995) 4,5-Dihydro-4-oxo-3*H*-imidazo[4,5-*c*]pyridines: potent arylacetic acid-derived AT₁ antagonists with improved affinity for the AT₂ receptor. *Bioorg.Med.Chem.Lett.* **5** 2665.

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