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Print Date: Apr 13th 2023

Certificate of Analysis

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Batch No.: 10

Catalog No.: 1415

Product Name: 1400W dihydrochloride

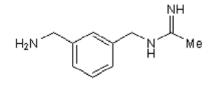
CAS Number: 214358-33-5 IUPAC Name: *N*-[[3-(Aminor

N-[[3-(Aminomethyl)phenyl]methyl]-ethanimidamide dihydrochloride

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: Batch Molecular Weight: Physical Appearance: Solubility: Storage: Batch Molecular Structure: $C_{10}H_{15}N_3.2HCI$ 250.17 White solid water to 100 mM Desiccate at RT

.2HCI



2. ANALYTICAL DATA

HPLC: ¹H NMR: Mass Spectrum: Microanalysis: Shows 99.4% purity Consistent with structure Consistent with structure

	Carbon Hy	ydrogen N	litrogen	Chlorine
Theoretical	48.01	6.85	16.8	28.34
Found	47.9	6.75	16.78	28.51

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

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Product Information

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Product Name: 1400W dihydrochloride

CAS Number: 214358-33-5

IUPAC Name: *N*-[[3-(Aminomethyl)phenyl]methyl]-ethanimidamide dihydrochloride

Description:

1400W dihydrochloride is a slow, tight binding, potent and highly selective inhibitor of inducible nitric oxide synthase ($K_d = 7 \text{ nM}$). Selective over nNOS and eNOS (K_i values are 2 and 50 μ M respectively). Cell-permeable and active in vivo. Neuroprotective in epilepsy models and has analgesic effects in models of mechanical and heat hypersensitivity.

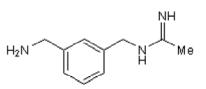
Physical and Chemical Properties:

Batch Molecular Formula: $C_{10}H_{15}N_3$.2HCl Batch Molecular Weight: 250.17 Physical Appearance: White solid

Minimum Purity: ≥99%

Batch Molecular Structure:

.2HCI



Storage: Desiccate at RT

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).

Catalog No.: 1415

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:

Putra *et al* (2020) Inducible nitric oxide synthase inhibitor, 1400W, mitigates DFP-induced long-term neurotoxicity in the rat model. Neurobiol.Dis. **133** 104443. PMID: 30940499.

Staunton *et al* (2018) Inducible nitric oxide synthase inhibition by 1400W limits pain hypersensitivity in a neuropathic pain rat model. Exp.Physiol **103** 535. PMID: 29441689.

Parmentier *et al* (1999) Selective inhibition of inducible nitric oxide synthase prevents ischaemic brain injury. Br.J.Pharmacol. **127** 546. PMID: 10385257.

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