



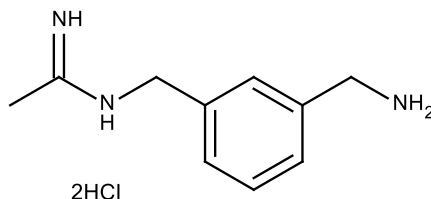
**Catalog # 10-4501**

**1400W dihydrochloride**

CAS# 214358-33-5

N-(3-Aminomethyl)benzyl)acetamidine dihydrochloride

Lot # FBA5102



Potent, tight-binding, slow inhibitor of inducible nitric oxide synthase (iNOS). Highly selective for iNOS<sup>3</sup> ( $K_i = 7$  nM) over nNOS or eNOS ( $K_i$ 's of 2  $\mu$ M and 50  $\mu$ M respectively).<sup>1</sup> Cell permeable and active *in vivo*.<sup>2</sup>

- 1) Garvey *et al.* (1997), *1400W is a slow, tight-binding, and highly selective inhibitor of inducible nitric-oxide synthase in vitro and in vivo*; J. Biol. Chem., **272** 4959
- 2) Thomsen *et al.* (1997), *Selective inhibition of inducible nitric oxide synthase inhibits tumor growth in vivo: Studies with 1400W, a novel inhibitor*, Cancer Res., **57** 3300
- 3) Pigott *et al.* (2013), *On the selectivity of neuronal NOS inhibitors*; Br. J. Pharmacol., **168** 1255

**PHYSICAL DATA**

Molecular Weight:	250.17
Molecular Formula:	C <sub>10</sub> H <sub>15</sub> N <sub>3</sub> · 2HCl
Purity:	98% by TLC [Pyridine/HOAc/H <sub>2</sub> O/n-Butanol. 1:2:2:6; R <sub>f</sub> = 0.30] NMR: (Conforms)
Solubility:	Water (up to 25 mg/ml)
Physical Description:	White solid
Storage and Stability:	Store as supplied at -20°C for up to 1 year from the date of purchase. Solutions in distilled water are not stable and should be used within one working day.

**Materials provided by Focus Biomolecules are for laboratory research use only and are not intended for human or veterinary applications.**

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