NG-amino-L-Arginine (hydrochloride)

**Item No. 10554**

CAS Registry No.: 1031799-40-2
Formal Name: N5-(hydrazinyliminomethyl)-L-ornithine, monohydrochloride
MF: C6H15N5O2 • HCl
FW: 225.7
Purity: ≥97%
Stability: ≥2 years at -20°C
Supplied as: A crystalline solid

**Laboratory Procedures**

For long term storage, we suggest that NG-amino-L-arginine (hydrochloride) be stored as supplied at -20°C. It should be stable for at least two years.

NG-amino-L-Arginine (hydrochloride) is supplied as a crystalline solid. NG-amino-L-Arginine (hydrochloride) is sparingly soluble in organic solvents such as ethanol, DMSO, and dimethyl formamide. For biological experiments, we suggest that organic solvent-free aqueous solutions of NG-amino-L-arginine (hydrochloride) be prepared by directly dissolving the crystalline compound in aqueous buffers. The solubility of NG-amino-L-arginine (hydrochloride) in PBS, pH 7.2, is approximately 10 mg/ml. We do not recommend storing the aqueous solution for more than one day.

NG-amino-L-Arginine inhibits nNOS, iNOS, and eNOS with \( K_i \) values of 0.3, 3, and 2.5 μM, respectively.\(^1\) \(^2\) Inhibition is mediated by covalent alteration of the heme prosthetic group leading to inactivation of the enzyme.\(^1\) \(^3\) NG-amino-L-Arginine can be used both in cell culture and *in vivo*.\(^4\) \(^5\)

**References**


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