L-NIL (hydrochloride)

Item No. 80310

CAS Registry No.: 159190-45-1
Formal Name: N6-(1-iminoethyl)-L-lysine, dihydrochloride
MF: C8H12N2O2 • 2HCl
FW: 260.2
Purity: ≥95%
Stability: ≥2 years at -20°C
Supplied as: A crystalline solid
Misc.: Very hygroscopic

Laboratory Procedures

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

The solubility of L-NIL (hydrochloride) in distilled water is approximately 60 mg/ml. The solubility at this concentration is limited by the pH, which will be ≤1. Using a buffer to maintain the pH ≥3 will allow the preparation of solutions of at least 100 mg/ml. Store aqueous solutions of L-NIL (hydrochloride) at room temperature and use within 12 hours of preparation. Although the aqueous solutions of L-NIL (hydrochloride) may be stable for more than 12 hours, we strongly recommend using a fresh preparation everyday.

L-NIL is a relatively selective inhibitor of iNOS. It exhibits IC50 values of 0.4-3.3 µM for iNOS as opposed to 8-38 and 17-92 µM for eNOS and nNOS, respectively.1-3 L-NIL effectively inhibits iNOS both in vitro and in vivo.3,5 L-NIL has been used to demonstrate a critical role for iNOS in the immune response to infection by the protozoan L. major.3,6

Reference


Related Products

For a list of related products please visit: www.caymanchem.com/catalog/80310

WARNING: This product is for laboratory research only; not for administration to humans. Not for human or veterinary diagnostic or therapeutic use.

SAFETY DATA
This material should be considered hazardous until information to the contrary becomes available. Do not ingest, swallow, or inhale. Do not get in eyes, on skin, or on clothing. Wash thoroughly after handling. This information contains some, but not all, of the information required for the safe and proper use of this material. Before use, the user must review the complete Safety Data Sheet, which has been sent to your institution.

WARRANTY AND LIMITATION OF REMEDY
Cayman Chemical Company makes no warranty or guarantee of any kind, whether written or oral, expressed or implied, including without limitation, any warranty of fitness for a particular purpose, suitability and merchantability, which extends beyond the description of the chemicals hereof. Cayman warrants only to the original customer that the material will meet our specifications, which extends beyond the description of the chemicals hereof. Cayman warrants only to the original customer that the material will meet our specifications at the time of delivery.

Cayman will carry out its delivery obligations with due care and skill. Thus, in no event will Cayman have any obligation or liability, whether in tort (including negligence) or in contract, for any direct, indirect, incidental or consequential damages, even if Cayman is informed about their possible existence.

This limitation of liability does not apply in the case of intentional acts or negligence of Cayman, its directors or its employees. Buyer’s exclusive remedy and Cayman’s sole liability hereunder shall be limited to a refund of the purchase price, or at Cayman’s option, the equivalent, at no cost to Buyer, of all material that does not meet our specifications.

Said refund or replacement is conditioned on Buyer giving written notice to Cayman within thirty (30) days after arrival of the material at its destination. Failure of Buyer to give such notice within thirty (30) days shall constitute a waiver by Buyer of all claims hereunder with respect to said material.

For further details, please refer to our Warranty and Limitation of Remedy located on our website and in our catalog.