

Product Data Sheet

Product Name: NNMTi
Cat. No.: GC50601

Chemical Properties

Cas. No. 42464-96-0

SMILES [I-].C[N+]1=CC=CC2=C(N)C=CC=C12

Formula C₁₀H₁₁N₂ M.Wt 286.11

Solubility DMSO : 20.83 mg/mL (72.80 mM; ultrasonic and warming and heat to 60°C); H₂O : 2.27 mg/mL (7.93 mM; ultrasonic and warming and heat to 60°C)

Storage Store at -20°C

General tips For obtaining a higher solubility , please warm the tube at 37 °C and shake it in the ultrasonic bath for a while. Stock solution can be stored below -20°C for several months.

Shipping Condition Evaluation sample solution : ship with blue ice All other available size: ship with RT , or blue ice upon request.

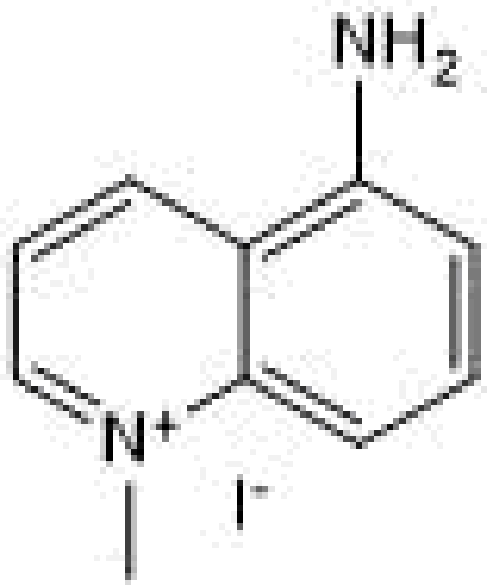
Caution: Product has not been fully validated for medical applications. For research use only.

Tel: (909) 407-4943 Fax: (626) 353-8530 E-mail: tech@glpbio.com

Address: 10292 Central Ave. #205, Montclair, CA, USA

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Structure



Background

Nicotinamide N-methyltransferase (NNMT) inhibitor (IC₅₀ = 1.2 μM). Promotes myoblast differentiation in C2C12 cells. Activates senescent muscle stem cells (muSCs) and improves regenerative capacity of aged skeletal muscle. Enhances proliferation, fusion and regenerative capacity of muSCs in aged mice.

Neelakantan et al (2019) Small molecule nicotinamide N-methyltransferase inhibitor activates senescent muscle stem cells and improves regenerative capacity of aged skeletal muscle. Biochem. Pharmacol. 163 481 PMID:30753815 | Neelakantan et al (2017) Structure-activity relationship for small molecule inhibitors of nicotinamide N-methyltransferase. J.Med.Chem. 60 5015 PMID:28548833

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