PRODUCT INFORMATION



nNOS Inhibitor I

Item No. 20906

CAS Registry No.: 357965-99-2

Formal Name: N-[(4S)-4-amino-5-[(2-aminoethyl)amino]

pentyl]-N'-nitro-guanidine, tris(2,2,2-

trifluoroacetate)

Synonyms: Neuronal Nitric Oxide Synthase, NOS I,

ncNOS

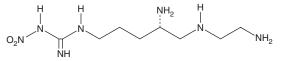
MF: C₈H₂₁N₇O₂ • 3CF₃COOH

FW: 589.4 **Purity:** ≥95%

UV/Vis.: λ_{max} : 269 nm A solution in ethanol Supplied as:

-20°C Storage: ≥2 years Stability:

Information represents the product specifications. Batch specific analytical results are provided on each certificate of analysis.



• 3CF₃COOH

Laboratory Procedures

nNOS inhibitor I is supplied as a solution in ethanol. To change the solvent, simply evaporate the nNOS inhibitor I under a gentle stream of nitrogen and immediately add the solvent of choice. A stock solution may be made by dissoving the nNOS inhibitor I in the solvent of choice. nNOS inhibitor I is soluble in water at a concentration of approximately 50 mg/ml.

Description

nNOS inhibitor I is a cell-permeable, selective inhibitor of nNOS (K_i = 120 nM).¹ It displays >2,500-fold and 320-fold selectivity over eNOS and iNOS, respectively. 1 It has been used in a rabbit model for cerebral palsy to prevent hypoxia-ischemia-induced death and to reduce the number of newborn kits exhibiting signs of cerebral palsy.2

References

- 1. Hah, J.-M., Roman, L.J., Martásek, P., et al. Reduced amide bond peptidomimetics. (4S)-N-(4-amino-5-[aminoakyl]aminopentyl)-N'-nitroguanidines, potent and highly selective inhibitors of neuronal nitric oxide synthase. J. Med. Chem. 44(16), 2667-2670 (2001).
- 2. Ji, H., Tan, S., Igarashi, J., et al. Selective neuronal nitric oxide synthase inhibitors and the prevention of cerebral palsy. Ann. Neurol. 65(2), 209-217 (2009).

WARNING
THIS PRODUCT IS FOR RESEARCH ONLY - NOT FOR HUMAN OR VETERINARY DIAGNOSTIC OR THERAPEUTIC USE.

This material should be considered hazardous until further information becomes available. Do not ingest, inhale, get in eyes, on skin, or on clothing. Wash thoroughly after handling. Before use, the user must review the complete Safety Data Sheet, which has been sent via email to your institution.

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