Purdue Bioscience

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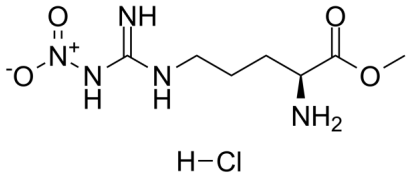
Data Sheet

Product Information

Catalog Number	BP22545
Product Name	L-NAME hydrochloride
Description	L-NAME hydrochloride inhibits NOS with an IC50 of 70 μM. L-NAME is a precursor to NOS inhibitor L-NOARG which has an IC50 value of 1.4 μM.
In vitro	L-arginine analogues are widely used inhibitors of nitric oxide synthase (NOS) activity, with Nw-nitro-L-arginine methyl ester (L-NAME) being at the head. Freshly dissolved L-NAME is a 50 fold less potent inhibitor of purified brain NOS (mean IC50= 70 μM) than L-NOARG (IC50= 1.4 μM), but the apparent inhibitory potency of L-NAME approached that of L-NOARG upon prolonged incubation at neutral or alkaline pH. HPLC analyses reveal that NOS inhibition by L-NAME closely correlated with hydrolysis of the drug to L-NOARG.
In vivo	L-NAME infusion significantly decreases NKT-leukocyte level, tumor-necrosis factor (TNF)-alpha production by T-splenocytes and macrophages, and IFNγ production by T-leukocytes, monocytes, and T-splenocytes, as well as increased interleukin-6 production by T-leukocytes and monocytes and nitrate/nitrite production by T-leukocytes. There is increasing evidence that nitric oxide may be involved in learning and memory. l-NAME produces a task-dependent impairment of fear extinction, and implies that nitric oxide signaling is involved in memory process of certain fear extinction tasks. Chronic L-NAME administration induces cardiac hypertrophy in rodent models. Six weeks L-NAME administration induces significant cardiac hypertrophy compared to control hearts.
CAS No.	51298-62-5
Chemical Formula	C7H16ClN5O4

Molecular Weight	269.69
Solubility	DMSO: 100 mg/mL (370.80 mM, Need ultrasonic) H2O: 100 mg/mL (370.80 mM, Need ultrasonic)
Storage	Powder: -20°C for 2 years In solvent: -80°C for 1 year
Chemical Structure OR Tested Image	

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