

---

**Product Data Sheet**

---

Product Name: Naspam (1-Naphthylacetyl spermine)

Cat. No.: GC33668

**Chemical Properties**

Cas. No. 122306-11-0

SMILES O=C(NCCCNCCCCNCCCN)CC1=C2C=CC=CC2=CC=C1Formula C22H34N4O M.Wt 370.53

Solubility DMSO : 10 mg/mL (26.99 mM) 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.

Structure **Background**

Naspam (1-Naphthyl acetyl spermine), a synthetic analogue of Joro spider toxin, is a calcium permeable AMPA (CP-AMPA) receptors antagonist.

NASPM selectively suppresses the inwardly rectifying and Ca<sup>2+</sup>-permeable AMPA receptors expressed in type II neurons. It has no effect on AMPA receptors in type I neurons. At -60 mV, NASPM suppresses AMPA receptors in type II neurons with an IC<sub>50</sub> value of 0.33 μM. The blocking effect of NASPM on the Ca<sup>2+</sup>-permeable AMPA receptors is use and voltage-dependent[1].

[1]. Koike M, et al. Blocking effect of 1-naphthyl acetyl spermine on Ca<sup>2+</sup>-permeable AMPA receptors in cultured rat hippocampal neurons. *Neurosci Res.* 1997 Sep;29(1):27-36.

**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