### Product Data Sheet

**Product Name:** Naspm

**CAS No.:** 122306-11-0  
**Cat. No.:** HY-12506  
**MWt:** 370.53  
**Formula:** C22H34N4O  
**Purity:** >96%  

**Solubility:** DMSO

**Mechanisms:**  
Pathways: Neuronal Signaling; Target: AMPAR  
Pathways: Membrane Transporter/Ion Channel; Target: AMPAR

**Biological Activity:**
Naspm (1-Naphthylacetyl spermine) is a potent and selective Ca2+ permeable AMPA receptor (Ca-perm AMPAR) blocker.

**IC50 value:**
Target: CP-AMPAR blocker

Naspm is a selective blocker of Ca(2+)-permeable GluA2-lacking AMPA receptors, reduced MNNG-induced CA1 pyramidal cell death [1]. Intra-ACC injections of the CP-AMPAR channel antagonist, 1-naphthylacetyl spermine (NASPM) immediately following trace fear conditioning blocked 24 h fear memory retrieval [2]. TNF-α+PDC caused considerable MN degeneration was blocked by the Ca-perm AMPAR selective blocker, 1-naphthyl acetylspermine (NASPM) [3]. Blockage of CP-AMPARs with Naspm (100 μM) results in most cases in a significant reduction of the PPD magnitude, also reversing to paired-pulse facilitation in some cases [4].

**References:**


**Caution:** Not fully tested. For research purposes only

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