
Product Data Sheet

Product Name: NS-102
Cat. No.: GC64133

Chemical Properties

Cas. No. 136623-01-3

Formula C₁₂H₁₁N₃O₄ M.Wt 261.23

Solubility DMSO : 4 mg/mL (15.31 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.

Structure

Background

NS-102 is a selective kainate (GluK2) receptor antagonist. NS-102 is a potent GluR6/7 receptor antagonist[1][2][3].

Combination of NS-102 (10 μM) and GYKI 52466 (30 μM) prevents full loss of compound action potentials (CAPs) during oxygen and glucose deprivation (OGD) and increases CAP area recovery[1].

NS-102 (20, 40 or 80 μmol/litre ; in the hippocampal CA3 region) significantly reduces Sevoflurane-induced hyperactivities[1].

[1]. Selva Baltan TekkÖk, et al. Excitotoxic mechanisms of ischemic injury in myelinated white matter. J Cereb Blood Flow Metab. 2007 Sep;27(9):1540-52.

[2]. P Liang, et al. Sevoflurane activates hippocampal CA3 kainate receptors (GluK2) to induce hyperactivity during induction and recovery in a mouse model. Br J Anaesth. 2017 Nov 1;119(5):1047-1054.

[3]. Barbara Gisabella, et al. Kainate receptor-mediated modulation of hippocampal fast spiking interneurons in a rat model of schizophrenia. PLoS One. 2012;7(3):e32483.

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

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