
Product Data Sheet

Product Name: Ned K
Cat. No.: GC50308

Chemical Properties

Cas. No. 2250019-90-8

SMILES O=C(O)[C@H]1N[C@H](C2=CC=C(OC)C(CN3CCN(C4=CC=CC=C4C#N)CC3)=C2)C5=C(C(C=CC=C6)=C6N5)C1

Formula $C_{31}H_{31}N_5O_3$ M.Wt 521.61

Solubility Soluble in DMSO Storage Store at -20°C

General For obtaining a higher solubility, please warm the tube at 37 °C and shake it in the tips ultrasonic bath for a while. Stock solution can be stored below -20°C for several months.

Shipping Evaluation sample solution: ship with blue ice All other available size: ship with RT, or Condition blue ice upon request.

Structure

Background

NAADP inhibitor. Prevents Ca²⁺ oscillations in rat cardiomyocytes in vitro during simulated ischemia and reperfusion, but exhibits no significant effect on Ca²⁺ sparks. Significantly reduces infarct size in rat cardiac ischemia/reperfusion model in vivo.

Davidson et al (2015) Inhibition of NAADP signalling on reperfusion protects the heart by preventing lethal calcium oscillations via two-pore channel 1 and opening of the mitochondrial permeability transition pore. Cardiovasc.Res. 108 357 PMID:26395965

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

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