

Product Data Sheet

Product Name: CVN293

Cat. No.: GC73796

Chemical Properties

Cas. No. 2815296-08-1

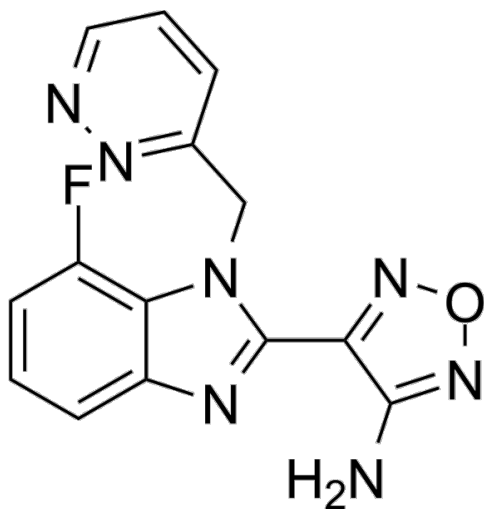
Formula $C_{14}H_{10}FN_7O$ M.Wt 311.27

Solubility DMSO : 5 mg/mL (16.06 mM); ultrasonic and warming and heat to 60°C) Storage -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

CVN293 is a selective and brain permeable potassium ion (K^+) channel KCNK13 inhibitor with IC_{50} s of 41 nM and 28 nM for hKCNK13 and mKCNK13, respectively. CVN293 potently inhibits the NLRP3-inflammasome mediated production of the proinflammatory cytokine IL-1 β in microglia.

CVN293 (0.05, 0.5, 5 μ M) demonstrates a concentration-dependent inhibition of the NLRP3-inflammasome mediated production of IL-1 β from LPS-primed murine microglia[1].

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

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Pharmacokinetic Parameters of CVN293 in male Sprague-Dawley rat, dog and cynomolgus monkey[1].

References:

[1]. Roland W. Bürli, et al. Discovery of CVN293, a Brain Permeable KCNK13 (THIK-1) Inhibitor Suitable for Clinical Assessment. ACS Med. Chem. Lett. 2024.

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