

## Catalog # 10-1546 TGN-020

51987-99-6 N-1,3,4-Thisdiszol-2-yl-3-pyridinecarboxamide Lot # X106229



Aquaporin 4 channel blocker,  $IC_{50} = 3.1 \ \mu M.^1$  Reduces ischemic cerebral edema in a mouse model of focal cerebral ischemia using MRI.<sup>2</sup> Increases regional cerebral blood flow as determined in wild-type and AQP-4 knockout mice.<sup>3</sup> Reduces brain edema when administered after onset of ischemia in rat models.<sup>4</sup>

- 1) Huber et al. (2009), Identification of aquaporin 4 inhibitors using in vitro and in silico memthods; Bioorg. Med. Chem., **17** 411
- 2) Igarashi et al. (2011), Pretreatment with a novel aquaporin 4 inhibitor, TGN-020, significantly reduces ischemic cerebral edema; Neurol. Sci., **32** 113
- 3) Igarashi et al. (2013), Inhibition of aquaporin-4 significantly increases regional cerebral blood flow; Neuroreport, 24 324
- 4) Pirici et al. (2017), Inhibition of Aquaporin-4 Improves the Outcome of Ischaemic Stroke and Modulates Brain Paravascular Drainage Pathways; Int. J. Mol. Sci.; **19** E46

## PHYSICAL DATA

Molecular Weight:	206.22
Molecular Formula:	C <sub>8</sub> H <sub>6</sub> N <sub>4</sub> OS
Purity:	98% by TLC
	NMR: (Conforms)
Solubility:	DMSO (up to 10 mg/ml with warming)
Physical Description:	Off-white solid
Storage and Stability:	Store as supplied desiccated at room temperature for up to 2 years from the date of purchase.
	Solutions in DMSO may be stored at -20°C for up to 3 months.

Materials provided by Focus Biomolecules are for laboratory research use only and are not intended for human or veterinary applications.

Focus Biomolecules LLC 400 Davis Drive, Suite 600 Plymouth Meeting PA 19462 www.focusbiomolecules.com