

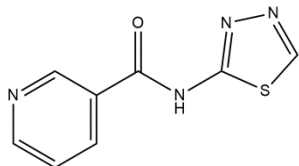
# TGN-020

01/20

**ALTERNATE NAMES:** N-(1,3,4-thiadiazol-2-yl)pyridine-3-carboxamide; n-(1,3,4-thiadiazol-2-yl)nicotinamide; 2-(Nicotinamido)-1,3,4-thiadiazole

**CATALOG #:** B2979-5 5 mg  
B2979-25 25 mg

**STRUCTURE:**



**MOLECULAR FORMULA:** C<sub>8</sub>H<sub>6</sub>N<sub>4</sub>OS

**MOLECULAR WEIGHT:** 206.22

**CAS NUMBER:** 51987-99-6

**APPEARANCE:** Solid

**PURITY:** 98%

**SOLUBILITY:** ~4 mg/ml in DMSO

**DESCRIPTION:** TGN-020 is an inhibitor of aquaporin 4 (AQP4), the most abundant water channel in brain. It inhibits AQP4 inhibitor with an IC<sub>50</sub> of 3 μM *in vitro*. Pretreatment with the AQP4 inhibitor TGN-020 significantly reduces ischemic cerebral edema associated with focal cerebral ischemia in a mouse model.

**STORAGE TEMPERATURE:** -20°C

**HANDLING:** Do not take internally. Wear gloves and mask when handling the product! Avoid contact by all modes of exposure.

**REFERENCES:**

1. Huber, V.J., Tsujita, M., Nakada, T. et al. Identification of aquaporin 4 inhibitors using in vitro and in silico methods. *Bioorg Med Chem.* 17(1):411-7 (2009).
2. Igarashi, H., Huber, V.J., Tsujita, M. et al. Pretreatment with a novel aquaporin 4 inhibitor, TGN-020, significantly reduces ischemic cerebral edema. *Neurol Sci.* 32(1):113-6 (2011).

**RELATED PRODUCTS:**

EZSolution™ P7C3-A20 (Cat. No. B1505)  
 Emodin (Cat. No. 1875)  
 PLX5622 (free base) (Cat. No. B2965)  
 Valsartan (Cat. No. 2004)  
 Chlorpromazine Hydrochloride (Cat. No. B1992)

**DISCLAIMER:** **FOR RESEARCH USE ONLY! Not to be used on humans.**