

Product Name: CLP 290

Catalog No.: 6758

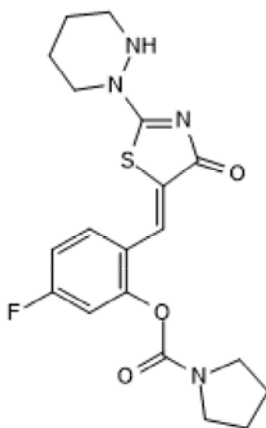
Batch No.: 1

CAS Number: 1181083-81-7

IUPAC Name: (Z)-5-Fluoro-2-((4-oxo-2-(tetrahydropyridazin-1(2H)-yl)thiazol-5(4H)-ylidene)methyl)phenyl pyrrolidine-1-carboxylate

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: C₁₉H₂₁FN₄O₃S
Batch Molecular Weight: 404.46
Physical Appearance: Pale orange solid
Solubility: DMSO to 50 mM
ethanol to 5 mM
Storage: Store at -20°C
Batch Molecular Structure:



2. ANALYTICAL DATA

HPLC: Shows 99.3% purity
¹H NMR: Consistent with structure
Mass Spectrum: Consistent with structure

Microanalysis:

	Carbon	Hydrogen	Nitrogen
Theoretical	56.42	5.23	13.85
Found	56.17	5.23	13.72

Caution - Not Fully Tested • Research Use Only • Not For Human or Veterinary Use

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Description:

K⁺/Cl⁻ Cotransporter 2 (KCC2) activator. Activates spinal inhibitory interneurons, restores physiological neuronal activity in the spinal cord and induces functional recovery in a mouse model of spinal cord injury. Also decreases blood vasopressin and glucose levels in mice with Streptozotocin (Cat. No. 1621) induced diabetes mellitus. Orally bioavailable prodrug of CLP 257 (Cat. No.5242).

Physical and Chemical Properties:

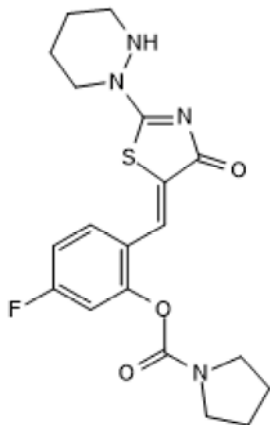
Batch Molecular Formula: C₁₉H₂₁FN₄O₃S

Batch Molecular Weight: 404.46

Physical Appearance: Pale orange solid

Minimum Purity: ≥98%

Batch Molecular Structure:



Storage: Store at -20°C

Solubility & Usage Info:

DMSO to 50 mM

ethanol to 5 mM

Stability and Solubility Advice:

Some solutions can be difficult to obtain and can be encouraged by rapid stirring, sonication or gentle warming (in a 45-60°C water bath).

Information concerning product stability, particularly in solution, has rarely been reported and in most cases we can only offer a general guide. Our standard recommendations are:

SOLIDS: Provided storage is as stated on the product label and the vial is kept tightly sealed, the product can be stored for up to 6 months from date of receipt.

SOLUTIONS: We recommend that stock solutions, once prepared, are stored aliquoted in tightly sealed vials at -20°C or below and used within 1 month. Wherever possible solutions should be made up and used on the same day.

References:

Kim et al (2019) Long-term ionic plasticity of GABAergic signalling in the hypothalamus. *J.Neuroendocrinol.* **31** e12753. PMID: 31166034.

Chen et al (2018) Reactivation of dormant relay pathways in injured spinal cord by KCC2 manipulations. *Cell* **174** 521. PMID: 30033363.

Gagnon et al (2013) Chloride extrusion enhancers as novel therapeutics for neurological diseases. *Nat.Med.* **19** 1524. PMID: 24097188.

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