
Product Data Sheet

Product Name: CLP 257
Cat. No.: GC50127

Chemical Properties

Cas. No. 1181081-71-9

SMILES OC1=C(/C=C2/C(N=C(N3CCCCN3)S2)=O)C=CC(F)=C1

Formula $C_{14}H_{14}FN_3O_2S$ M.Wt 307.34

Solubility DMSO: 20 mg/ml Storage Store at -20°C, unstable in solution, ready to use.

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

Selective KCC2 K⁺-Cl⁻ cotransporter activator (EC₅₀ = 616 nM). Exhibits selectivity for KCC2 over other KCC family members, NKCC1 and GABAA receptors, as well as 55 other receptors. Enhances Cl⁻ transport and increases KCC2 plasma membrane expression in spinal slices with reduced KCC2 function. Alleviates hypersensitivity in rats with peripheral nerve injury.

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

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

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