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**Product Data Sheet**

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Product Name: ITH 12575

Cat. No.: GC50237

**Chemical Properties**

Cas. No. 1802013-08-6

SMILES O=C1NC2=CC=C(Cl)C=C2C(C3=C(C(C)C)C=CC=C3)SC1Formula C18H18ClNOS M.Wt 331.86

Solubility DMSO : 50 mg/mL (150.67 mM; Need ultrasonic) Storage Store at -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**

Mitochondrial Na<sup>+</sup>/Ca<sup>2+</sup> exchange (mNCCX) inhibitor. Reduces Ca<sup>2+</sup> efflux from the mitochondria to the cytosol in HeLa cells (EC<sub>50</sub> = 0.69 μM). Protects against glutamate-induced excitotoxicity in rat hippocampal slices and oligomycin A/rotenone induced oxidative stress in neuroblastoma cells in vitro.

Martínez-Sanz et al (2015) Benzothiazepine CGP37157 analogues exert cytoprotection in various in vitro models of neurodegeneration. ACS Chem. Neurosci. 6 1626

PMID:26192029 | Moreno-Ortega et al (2015) Benzothiazepine CGP37157 and its 2'-isopropyl analogue modulate Ca<sup>2+</sup> entry through CALHM1. Neuropharmacology 95 503  
PMID:25908402

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

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