
Product Data Sheet

Product Name: Pyr10
Cat. No.: GC30096

Chemical Properties

Cas. No. 1315323-00-2

SMILES O=S(C1=CC=C(C)C=C1)(NC2=CC=C(N3N=C(C(F)(F)F)C=C3C(F)(F)F)C=C2)=O

Formula C18H13F6N3O2S M.Wt 449.37

Solubility DMSO : 100 mg/mL (222.53 mM); Water : < 0.1 mg/mL (insoluble) 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

Pyr10 is a novel TRPC3-selective inhibitor, IC₅₀ of Ca²⁺ influx inhibition by Pyr10 in carbachol-stimulated YFP-TRPC3-transfected HEK293 cells for ROCE and thapsigargin-depleted native RBL-2H3 cells for SOCE is 0.72 μM and 13.08 μM. IC₅₀ value: 0.72 μM (TRPC3-ROCE), 13.08 μM (SOCE) [1] Target: TRPC3 in vitro: Pyr10 displays substantial selectivity for TRPC3-mediated responses (18-fold) and the selective block of TRPC3 channels by Pyr10 barely affected mast cell activation.[1]

[1]. Schleifer H, et al. Novel pyrazole compounds for pharmacological discrimination between receptor-operated and store-operated Ca(2+) entry pathways. Br J Pharmacol. 2012 Dec;167(8):1712-1722. [2]. Obermayer D, et al. Microwave-assisted and continuous flow multistep synthesis of 4-(pyrazol-1-yl)carboxanilides. J Org Chem. 2011 Aug 19;76(16):6657-6669.

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

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