

Product Data Sheet

Product Name: RA-2
Cat. No.: GC91410

Chemical Properties

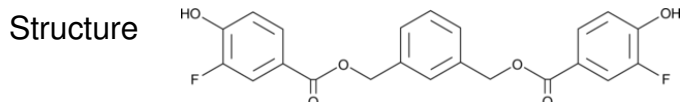
Cas. No. 1867107-62-7

Formula $C_{22}H_{16}F_2O_6$ M.Wt 414.4

Solubility DMSO: 5 mg/ml, Ethanol: 15 mg/ml 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.



Background

RA-2 is an inhibitor of small-conductance calcium-activated potassium channel 2.3 (KCa2.3/SK3) and intermediate-conductance calcium-activated potassium channel 3.1 (KCa3.1/IK1) (IC₅₀s = 2 and 17 nM, respectively).¹ It is selective for these channels over KCa1.1/BK1, voltage-gated potassium channel 1.2 (Kv1.2), Kv1.3, Kv7.4, human-ether-a-go-go (hERG), also known as Kv11.1, and the inward-rectifier potassium channel (Kir), but also inhibits KCa2.1 and KCa2.2 by 96 and 90%, respectively, at 1 μM. RA-2 (1 μM) inhibits bradykinin-induced relaxation of porcine coronary artery rings precontracted with the TP receptor agonist U-46619. It decreases heart rate, but not mean arterial blood pressure, in mice when administered at a dose of 30 mg/kg.

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

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