PRODUCT INFORMATION



RA-2

Item No. 39567

CAS Registry No.: 1867107-62-7

Formal Name: 3-fluoro-4-hydroxy-1,1'-[1,3-

phenylenebis(methylene)] ester, benzoic acid

MF: $C_{22}H_{16}F_2O_6$

FW: 414.4 **Purity:** ≥95% Supplied as: A solid Storage: -20°C Stability: ≥4 years

Information represents the product specifications. Batch specific analytical results are provided on each certificate of analysis.

Laboratory Procedures

RA-2 is supplied as a solid. A stock solution may be made by dissolving the RA-2 in the solvent of choice, which should be purged with an inert gas. RA-2 is soluble in organic solvents such as ethanol and DMSO. The solubility of RA-2 in these solvents is approximately 15 and 5 mg/ml, respectively.

Description

RA-2 is an inhibitor of small-conductance calcium-activated potassium channel 2.3 (K_{Ca}2.3/SK3) and intermediate-conductance calcium-activated potassium channel 3.1 (K_{Ca} 3.1/K1) (K_{Ca} 3.1/K1) (K_{Ca} 3.1/K1) (K_{Ca} 3.1/K1) and K_{Ca} 3.1/K1 is selective for these channels over K_{Ca} 1.1/K1, voltage-gated potassium channel 1.2 (K₂1.2), K₂1.3, K₂7.4, human-ether-a-go-go (hERG), also known as K₂11.1, and the inward-rectifier potassium channel (K_{ir}), but also inhibits $K_{Ca}2.1$ and $K_{Ca}2.2$ by 96 and 90%, respectively, at 1 μ M. RA-2 (1 μM) inhibits bradykinin-induced relaxation of porcine coronary artery rings precontracted with the TP receptor agonist U-46619 (Item No. 16450). It decreases heart rate, but not mean arterial blood pressure, in mice when administered at a dose of 30 mg/kg.

Reference

1. Oliván-Viguera, A., Valero, M.S., Coleman, N., et al. A novel pan-negative-gating modulator of K_{Ca}2/3 channels, fluoro-di-benzoate, RA-2, inhibits endothelium-derived hyperpolarization-type relaxation in coronary artery and produces bradycardia in vivo. Mol. Pharmacol. 87(2), 338-348 (2018).

WARNING
THIS PRODUCT IS FOR RESEARCH ONLY - NOT FOR HUMAN OR VETERINARY DIAGNOSTIC OR THERAPEUTIC USE.

This material should be considered hazardous until further information becomes available. Do not ingest, inhale, get in eyes, on skin, or on clothing. Wash thoroughly after handling. Before use, the user must review the complete Safety Data Sheet, which has been sent via email to your institution.

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