

Product Name: RA 2

Catalog No.: 7129

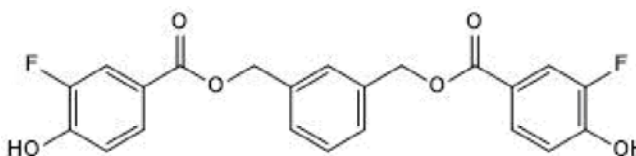
Batch No.: 1

CAS Number: 1867107-62-7

IUPAC Name: 1,3-Phenylenebis(methylene)bis(3-fluoro-4-hydroxybenzoate)

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: C₂₂H₁₆F₂O₆.
Batch Molecular Weight: 414.36
Physical Appearance: White solid
Solubility: DMSO to 100 mM
 ethanol to 100 mM
Storage: Store at -20°C
Batch Molecular Structure:



2. ANALYTICAL DATA

HPLC: Shows 99.5% purity
¹H NMR: Consistent with structure
Mass Spectrum: Consistent with structure

Microanalysis:

	Carbon	Hydrogen	Nitrogen
Theoretical	63.77	3.89	
Found	63.78	3.91	

Caution - Not Fully Tested • Research Use Only • Not For Human or Veterinary Use

Product Name: RA 2

Catalog No.: 7129

Batch No.: 1

CAS Number: 1867107-62-7

IUPAC Name: 1,3-Phenylenebis(methylene)bis(3-fluoro-4-hydroxybenzoate)

Description:

RA 2 is a potent negative modulator of calcium-activated potassium channels $K_{Ca2.3}$ and $K_{Ca3.1}$ (IC_{50} values are 2 and 17 nM, respectively), which displays >55-fold selectivity for K_{Ca2} and $K_{Ca3.1}$ over other K_{Ca} , K_v and K_r channels. In ex vivo porcine coronary endothelium, RA 2 inhibits SKA 31 (Cat. No. 3670)-induced $K_{Ca2}/K_{Ca3.1}$ currents and TRAM 34 (Cat. No. 2946)-insensitive K_{Ca2} currents. Reduces heart rate in mice in a $K_{Ca3.1}$ -dependent manner. Please see product datasheet on www.tocris.com for full description.

Physical and Chemical Properties:

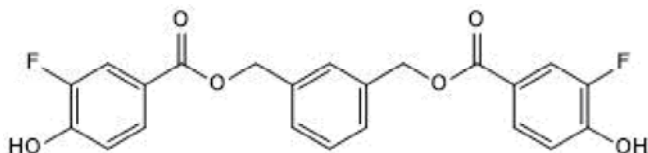
Batch Molecular Formula: $C_{22}H_{16}F_2O_6$.

Batch Molecular Weight: 414.36

Physical Appearance: White solid

Minimum Purity: ≥98%

Batch Molecular Structure:



References:

Olivan-Viguera et al (2016) Vascular reactivity profile of novel $K_{Ca3.1}$ -selective positive-gating modulators in the coronary vascular bed. *Basic Clin.Pharmacol.Toxicol.* **119** 184. PMID: 26821335.

Olivan-Viguera et al (2015) A novel pan-negative-gating modulator of $K_{Ca2/3}$ channels, fluoro-di-benzoate, RA-2, inhibits endothelium-derived hyperpolarization-type relaxation in coronary artery and produces bradycardia *in vivo*. *Mol.Pharmacol.* **338**. PMID: 25468883.

Storage: Store at -20°C

Solubility & Usage Info:

DMSO to 100 mM
ethanol to 100 mM

Stability and Solubility Advice:

Some solutions can be difficult to obtain and can be encouraged by rapid stirring, sonication or gentle warming (in a 45-60°C water bath).

Information concerning product stability, particularly in solution, has rarely been reported and in most cases we can only offer a general guide. Our standard recommendations are:

SOLIDS: Provided storage is as stated on the product label and the vial is kept tightly sealed, the product can be stored for up to 6 months from date of receipt.

SOLUTIONS: We recommend that stock solutions, once prepared, are stored aliquoted in tightly sealed vials at -20°C or below and used within 1 month. Wherever possible solutions should be made up and used on the same day.

Caution - Not Fully Tested • Research Use Only • Not For Human or Veterinary Use

bio-techne.com

info@bio-techne.com
techsupport@bio-techne.com

North America

Tel: (800) 343 7475

China

info.cn@bio-techne.com
Tel: +86 (21) 52380373

Europe Middle East Africa

Tel: +44 (0)1235 529449

Rest of World

www.tocris.com/distributors
Tel:+1 612 379 2956