

A-935142

Chemical Properties

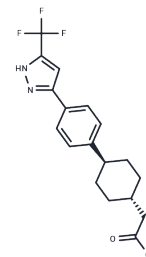
CAS No. : 1031335-85-9

Formula: C₁₈H₁₉F₃N₂O₂

Molecular Weight: 352.35

Storage: Powder: -20°C for 3 years | In solvent: -80°C for 1 year

Actual storage temperature shall be subject to the COA.



Biological Description

Description	A-935142 is a human ether-a-go-go-related gene (hERG, Kv 11.1) channel activator that enhances hERG currents by slowing inactivation, promoting activation, reducing inactivation, and shortening atrial and ventricular repolarization in a complex manner.
Targets(IC50)	EGFR,Potassium Channel
In vitro	A-935142 (60μM) increases both outward and inward K(+) current as well as the slope conductance of the linear portion of the fully activated I-V relation. A-935142 shortens cardiac action potentials and enhances the amplitude of the hERG current in a concentration- and voltage-dependent manner. A-935142 significantly reduces the time constants (tau) of hERG channel activation at two example voltages and shifts the voltage dependence for hERG activation in the hyperpolarizing direction by 9 mV.[2] A-935142 shortens the action potential duration (APD90) in guinea pig atrial tissue and canine cardiac Purkinje fibers[1].

Solubility Information

Solubility	DMSO: 5.63 mg/mL (15.98 mM),Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
------------	---

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.8381 mL	14.1904 mL	28.3809 mL
5 mM	0.5676 mL	2.8381 mL	5.6762 mL
10 mM	0.2838 mL	1.419 mL	2.8381 mL
50 mM	0.0568 mL	0.2838 mL	0.5676 mL

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. Please use it as soon as possible.

Note: The dilution table applies only to solid products. For liquid products, please calculate the stock solution based on the stated concentration and/or density.

Reference

Ohno H, et al. Absorption, disposition, metabolism and excretion of [14C]mizagliflozin, a novel selective SGLT1 inhibitor, in rats. *Xenobiotica*. 2019;49(4):463-473.

Liu X, et al. Characterization of A-935142, a hERG enhancer, in the presence and absence of standard hERG blockers. *Life Sci*. 2012;90(15-16):607-11.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

This product is for Research Use Only · Not for Human or Veterinary or Therapeutic Use

Tel:781-999-4286 E_mail:info@targetmol.com Address:34 Washington Street,Wellesley Hills,MA 02481