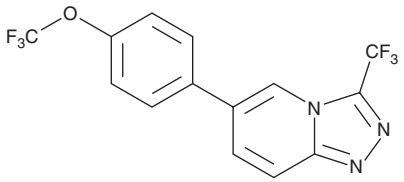
PRODUCT INFORMATION

GS967

Item No. 18376

CAS Registry No.:	1262618-39-2
Formal Name:	6-[4-(trifluoromethoxy)phenyl]-3-(trifluoromethyl)-1,2,4-triazolo[4,3-a]pyridine
MF:	$C_{14}H_7F_6N_3O$
FW:	347.2
Purity:	≥98%
UV/Vis.:	λ_{max}: 247 nm
Supplied as:	A crystalline 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

GS967 is supplied as a crystalline solid. A stock solution may be made by dissolving the GS967 in the solvent of choice. GS967 is soluble in organic solvents such as ethanol, DMSO, and dimethyl formamide (DMF), which should be purged with an inert gas. The solubility of GS967 in these solvents is approximately 12, 20, and 25 mg/ml, respectively.

GS967 is sparingly soluble in aqueous buffers. For maximum solubility in aqueous buffers, GS967 should first be dissolved in DMF and then diluted with the aqueous buffer of choice. GS967 has a solubility of approximately 0.3 mg/ml in a 1:2 solution of DMF:PBS (pH 7.2) using this method. We do not recommend storing the aqueous solution for more than one day.

Description

Inhibition of cardiac late sodium current (late I_{Na}) is a strategy to suppress arrhythmias and sodium-dependent calcium overload associated with myocardial ischemia and heart failure. GS967 is a selective inhibitor of late I_{Na} that has been shown to suppress experimentally induced arrhythmias in rabbit myocytes and hearts.[1] It can inhibit *A. sulcata* toxin II–induced late I_{Na} in ventricular myocytes and isolated hearts with IC_{50} values of 0.13 and 0.21 µM, respectively.[1] GS967 causes minimal inhibition of the delayed-rectifier potassium current nor does it affect L- or T-type calcium channel currents, sodium-calcium exchanger currents, or a panel of 162 receptors, ion channels, transporters, and enzymes.[1]

Reference

1. Belardinelli, L., Liu, G., Smith-Maxwell, C., *et al.* A novel, potent, and selective inhibitor of cardiac late sodium current suppresses experimental arrhythmias. *J. Pharmacol. Exp. Ther.* **344(1)**, 23-32 (2013).

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