
Product Data Sheet

Product Name: NS 1643
Cat. No.: GC12424

Chemical Properties

Cas. No. 448895-37-2

Chemical Name 1,3-bis(2-hydroxy-5-(trifluoromethyl)phenyl)urea

SMILES FC(F)(C(C=C1)=CC(NC(NC(C=C(C(F)(F)F)C=C2)=C2O)=O)=C1O)F

Formula $C_{15}H_{10}F_6N_2O_3$ M.Wt 380.24

Solubility $\geq 13.05\text{mg/mL}$ in DMSO 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.

Structure

Background

NS1643 is a partial agonist of human ether-a-go-go-related gene (hERG) K(+) channels with an EC50 of $10.5\ \mu\text{M}$. NS1643 has distinct effects on erg2 (Kv11.2) currents by reducing channel inactivation especially at high concentrations[1]. NS1643 increases the repolarization reserve and exhibits an interesting new antiarrhythmic approach[2].

References:

[1]. Sun XJ, et al. The Role of Histone Acetyltransferases in Normal and Malignant Hematopoiesis. *Front Oncol.* 2015 May 26;5:108.

[2]. Casis O, et al. Mechanism of action of a novel human ether-a-go-go-related gene channel activator. *Mol Pharmacol.* 2006 Feb;69(2):658-65. Epub 2005 Nov 11.

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

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