

Product Name	: AZD-1305
Synonyms	: AZD1305
Cat No.	: M16340
CAS Number	: 872045-91-5
Molecular Formula	: C ₂₂ H ₃₁ FN ₄ O ₄
Formula Weight	: 434.51
Chemical Name	: (2-(7-(2-(4-Cyano-2-fluorophenoxy)ethyl)-9-oxa-3,7-diazabicyclo(3.3.1)non-3-yl)ethyl)carbamic acid tert-butyl ester
Description	: AZD-1305 is a novel antiarrhythmic agent that predominantly blocks the rapid component of I _{Kr} , the L-type calcium current, and the inward sodium current in mammalian cells and ventricular cardiomyocytes; significantly prolongs action potential duration and reduces excitability at 0.1-10 μM in dogs, effectively prevents induction of persistent acetylcholine-mediated atrial fibrillation (AF) in vivo. Heart Arrhythmia Phase 1 Discontinued
Pathway	: Membrane Transporter/Ion Channel
Target	: Sodium Channel
Receptor	: Sodium Channel
Solubility	: —
SMILES	: CC(C)(C)OC(=O)NCCN1C[C@@H]2CN(C[C@H](C1)O2)CCOc3ccc(cc3F)C#N
Storage	: (-20°C)
Stability	: ≥ 2 years
Reference	:

1. Sicouri S, et al. J Pharmacol Exp Ther. 2010 Jul;334(1):255-9. | 2. Burashnikov A, et al. J Cardiovasc Pharmacol. 2010 Jul;56(1):80-90. | 3. Johnson DM, et al. Circ Arrhythm Electrophysiol. 2012 Feb;5(1):201-9. | 4. Geller JC, et al. J Clin Pharmacol. 2009 Mar;49(3):312-22.