
Product Name	: Vernakalant Hydrochloride
Synonyms	: —
Cat No.	: M33529
CAS Number	: 748810-28-8
Molecular Formula	: C ₂₀ H ₃₂ ClNO ₄
Formula Weight	: 385.93
Chemical Name	: —
Description	: Vernakalant hydrochloride is a mixed voltage- and frequency-dependent Na ⁺ and atria-preferred K ⁺ channel blocker. IC ₅₀ for block by Vernakalant of wild-type and mutant Kv1.5 channels Fractional block is 13.35±0.93 μM, 0.61±0.03 μM, and 1.63±0.09 μM for Kv1.5 channelwt, Kv1.5 channelI508F, Kv1.5 channelT479A, respectively.
Pathway	: Membrane Transporter/Ion Channel
Target	: Sodium Channel
Receptor	: Sodium Channel Potassium Channel
Solubility	: In Vitro: ?DMSO : 50 mg/mL (129.56 mM; Ultrasonic) H ₂ O : 50 mg/mL (129.56 mM; Ultrasonic)
SMILES	: Cl.COC1ccc(CCO[C@@H]2CCCC[C@H]2N2CC[C@@H](O)C2)cc1OC
Storage	: (-20°C)
Stability	: ≥ 2 years
Reference	:

1. Eldstrom J, et al. The molecular basis of high-affinity binding of the antiarrhythmic compound Vernakalant (RSD1235) to Kv1.5 channels. Mol Pharmacol. 2007 Dec;72(6):1522-34.?