



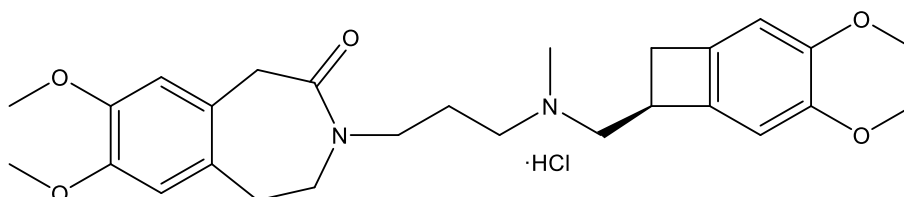
Catalog # 10-2694

Ivabradine HCl

CAS# 148849-67-6

3-[3-[[[(7S)-3,4-Dimethoxy-7-bicyclo[4.2.0]octa-1,3,5-trienyl]methyl-methylamino]propyl]7,8-dimethoxy-2,5-dihydro-1H-3-benzazepin-4-one hydrochloride

Lot # FBS2076



Ivabradine HCl (148849-67-6) is a clinically useful heart failure and chronic unstable angina medication.¹ It lowers heart rate *via* inhibition of hyperpolarization-activated cyclic nucleotide-gated channels (HCN) expressed in the sinoatrial node (IC₅₀'s: HCN1 = 2.05 μ M, HCN2 = 2.29 μ M, HCN3 = 2.51 μ M, HCN4 = 2.15 μ M).²

References:

- 1) Ide *et al.* (2019), *Ivabradine for the Treatment of Cardiovascular Diseases*; Circ. J. **83** 252
- 2) Stieber *et al.* (2006), *Bradycardic and Proarrhythmic Properties of Sinus Node Inhibitors*; Mol. Pharmacol. **69** 1328

PHYSICAL DATA

Molecular Weight:	505.05
Molecular Formula:	C ₂₇ H ₃₆ N ₂ O ₅ ·HCl
Purity:	>98% by HPLC
	NMR: (Conforms)
Solubility:	DMSO (20 mg/ml)
Physical Description:	White solid
Storage and Stability:	Store as supplied desiccated at -20°C for up to 1 year from the date of purchase. Solutions in DMSO may be stored at -20°C for up to 1 month.

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Focus Biomolecules LLC 400 Davis Drive, Suite 600 Plymouth Meeting PA 19462

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