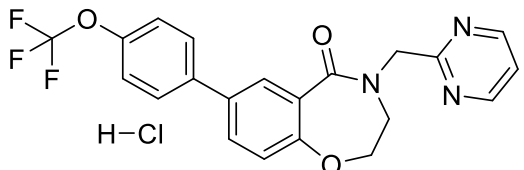


# Product data sheet



MedKoo Cat#: 563723 Name: Eleclazine HCl CAS#: 1448754-43-5 (HCl) Chemical Formula: C <sub>21</sub> H <sub>17</sub> ClF <sub>3</sub> N <sub>3</sub> O <sub>3</sub> Molecular Weight: 451.83	
Product supplied as:	Powder
Purity (by HPLC):	≥ 98%
Shipping conditions	Ambient temperature
Storage conditions:	Powder: -20°C 3 years; 4°C 2 years. In solvent: -80°C 3 months; -20°C 2 weeks.

## 1. Product description:

Eleclazine HCl is a novel late Na<sup>+</sup> current inhibitor.

## 2. CoA, QC data, SDS, and handling instruction

SDS and handling instruction, CoA with copies of QC data (NMR, HPLC and MS analytical spectra) can be downloaded from the product web page under “QC And Documents” section. Note: copies of analytical spectra may not be available if the product is being supplied by MedKoo partners. Whether the product was made by MedKoo or provided by its partners, the quality is 100% guaranteed.

## 3. Solubility data

Solvent	Max Conc. mg/mL	Max Conc. mM
DMSO	100.0	221.32

## 4. Stock solution preparation table:

Concentration / Solvent Volume / Mass	1 mg	5 mg	10 mg
1 mM	2.21 mL	11.07 mL	22.13 mL
5 mM	0.44 mL	2.21 mL	4.43 mL
10 mM	0.22 mL	1.11 mL	2.21 mL
50 mM	0.04 mL	0.22 mL	0.44 mL

## 5. Molarity Calculator, Reconstitution Calculator, Dilution Calculator

Please refer the product web page under section of “Calculator”

## 6. Recommended literature which reported protocols for in vitro and in vivo study

In vitro study

N/A

In vivo study

1. Caves RE, Carpenter A, Choisy SC, Clennell B, Cheng H, McNiff C, Mann B, Milnes JT, Hancox JC, James AF. Inhibition of voltage-gated Na<sup>+</sup> currents by eleclazine in rat atrial and ventricular myocytes. *Heart Rhythm* O2. 2020 Aug;1(3):206-214. doi: 10.1016/j.hroo.2020.05.006. PMID: 32864638; PMCID: PMC7442036.

2. Rajamani S, Liu G, El-Bizri N, Guo D, Li C, Chen XL, Kahlig KM, Mollova N, Elzein E, Zablocki J, Belardinelli L. The novel late Na<sup>+</sup> current inhibitor, GS-6615 (eleclazine) and its anti-arrhythmic effects in rabbit isolated heart preparations. *Br J Pharmacol*. 2016 Nov;173(21):3088-3098. doi: 10.1111/bph.13563. Epub 2016 Sep 14. PMID: 27449698; PMCID: PMC5056228.

## 7. Bioactivity

Biological target:

Eleclazine hydrochloride is a novel late Na<sup>+</sup> current inhibitor with IC<sub>50</sub> value of 0.7 μM.

In vitro activity

N/A

In vivo activity

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Eleclazine (10  $\mu\text{M}$ ) inhibited  $I_{\text{Na}}$  in atrial and ventricular myocytes in a use-dependent manner consistent with preferential activated state block. Eleclazine produced voltage-dependent instantaneous inhibition in atrial and ventricular myocytes; it caused a negative shift in voltage of half-maximal inactivation and slowed the recovery of  $I_{\text{Na}}$  from inactivation in both cell types.

Reference: Heart Rhythm O2. 2020 Aug;1(3):206-214. <https://pubmed.ncbi.nlm.nih.gov/32864638/>

*Note: The information listed here was extracted from literature. MedKoo has not independently retested and confirmed the accuracy of these methods. Customer should use it just for a reference only.*