Product Name: Ivabradine hydrochloride  
Catalog No.: 6542  
Batch No.: 1

CAS Number: 148849-67-6  
IUPAC Name: 3-[3-[[[(7S)-3,4-Dimethoxybicyclo[4.2.0]octa-1,3,5-trien-7-yl][methyl][methylamino]propyl]-1,3,4,5-tetrahydro-7,8-dimethoxy-2H-3-benzazepin-2-one hydrochloride

1. PHYSICAL AND CHEMICAL PROPERTIES

   Batch Molecular Formula: C_{27}H_{36}N_{2}O_{5}.HCl.\frac{3}{4}H_{2}O  
   Batch Molecular Weight: 518.56  
   Physical Appearance: White solid  
   Solubility: water to 100 mM  
   DMSO to 100 mM  
   Storage: Store at -20°C

2. ANALYTICAL DATA

   HPLC: Shows 100% purity  
   \textsuperscript{1}H NMR: Consistent with structure  
   Mass Spectrum: Consistent with structure  
   Microanalysis:  
   \begin{tabular}{ccc}
   Theoretical & 62.54 & 7.48 & 5.4 \\
   Found & 62.69 & 7.56 & 5.39 \\
   \end{tabular}

Caution - Not Fully Tested • Research Use Only • Not For Human or Veterinary Use

bio-techne.com  
info@bio-techne.com  
technsupport@bio-techne.com

North America  
Tel: (800) 343 7475

China  
info.cn@bio-techne.com  
Tel: +86 (21) 52380373

Europe Middle East Africa  
Tel: +44 (0)1235 529449

Rest of World  
www.tocris.com/distributors  
Tel:+1 612 379 2956
### Product Name: Ivabradine hydrochloride

**Catalog No.:** 6542  
**Batch No.:** 1

**CAS Number:** 148849-67-6  
**IUPAC Name:** 3-[3-[[[7S]-3,4-Dimethoxybicyclo[4.2.0]octa-1,3,5-trien-7-yl][methyl][methylamino]propyl]-1,3,4,5-tetrahydro-7,8-dimethoxy-2H-3-benzazepin-2-one hydrochloride

### Description:
HCN channel blocker (IC$_{50}$ is approximately 0.5 - 2.5 μM). Bradycardic agent that inhibits $I_{f}$ pacemaker current in sinoatrial node cells.

### Physical and Chemical Properties:
- **Batch Molecular Formula:** C$_{27}$H$_{36}$N$_{2}$O$_{6}$·HCl·¾H$_{2}$O  
- **Batch Molecular Weight:** 518.56  
- **Physical Appearance:** White solid

### Storage:
Store at -20°C

### Solubility & Usage Info:
- water to 100 mM  
- DMSO to 100 mM

### Stability and Solubility Advice:
Some solutions can be difficult to obtain and can be encouraged by rapid stirring, sonication or gentle warming (in a 45-60°C water bath).

Information concerning product stability, particularly in solution, has rarely been reported and in most cases we can only offer a general guide. Our standard recommendations are:

**SOLIDS:** Provided storage is as stated on the product label and the vial is kept tightly sealed, the product can be stored for up to 6 months from date of receipt.

**SOLUTIONS:** We recommend that stock solutions, once prepared, are stored aliquoted in tightly sealed vials at -20°C or below and used within 1 month. Wherever possible solutions should be made up and used on the same day.

### References: