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# DATASHEET

## Tropisetron hydrochloride

### Product overview

<b>Name</b>	Tropisetron hydrochloride
<b>Cat No</b>	HB2827
<b>Description</b>	Potent 5-HT <sub>3</sub> receptor antagonist. Also α7 nAChR partial agonist. Activates α7Q79G-GlyR chimeric ion channels.
<b>Alternative names</b>	ICS 205930 Novaban
<b>Biological action</b>	Antagonist
<b>Purity</b>	>99%

### Biological Data

<b>Biological description</b>	Potent 5-HT <sub>3</sub> receptor antagonist. Also α7 nAChR partial agonist.  It additionally activates α7Q79G-GlyR chimeric ion channels (EC <sub>50</sub> = 38 nM). Active <i>in vivo</i> .  Also shows anti-emetic activity.
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### Solubility & Handling

<b>Storage instructions</b>	Room temperature (desiccate)
<b>Solubility overview</b>	Soluble in water (100mM) and in DMSO (50mM)
<b>Important</b>	This product is for RESEARCH USE ONLY and is not intended for therapeutic or diagnostic use. Not for human or veterinary use.

### Chemical Data

<b>Chemical name</b>	[(1R,5S)-8-methyl-8-azabicyclo[3.2.1]octan-3-yl] 1H-indole-3-carboxylate;hydrochloride
<b>Molecular Weight</b>	320.81
<b>Molecular Formula</b>	C <sub>17</sub> H <sub>21</sub> ClN <sub>2</sub> O <sub>2</sub>
<b>CAS Number</b>	105826-92-4
<b>PubChem identifier</b>	656664
<b>SMILES</b>	CN1[C@@H]2CC[C@H]1CC(C2)OC(=O)C3=CNC4=CC=CC=C43.Cl
<b>InChi</b>	InChI=1S/C17H20N2O2.ClH/c1-19-11-6-7-12(19)9-13(8-11)21-17(20)15-10-18-16-5-3-2-4-14(15)16;/h2-5,10-13,18H,6-9H2,1H3;1H/t11-,12+,13?;
<b>InChiKey</b>	XIEGSJAEZIGKSA-KOQCZNHOSA-N
<b>MDL number</b>	MFCD00210221

### References

#### Tropisetron in the Prevention of Acute Nausea and Vomiting in Patients Treated With High Dose Epirubicin

Nicolaidis et al (1998) J Exp Clin Cancer Res. 17(1)

**PubMedID** [9646236](#)

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