DATASHEET
PNU 37883 hydrochloride

Product overview

<table>
<thead>
<tr>
<th>Name</th>
<th>PNU 37883 hydrochloride</th>
</tr>
</thead>
<tbody>
<tr>
<td>Cat No</td>
<td>HB1105</td>
</tr>
<tr>
<td>Biological action</td>
<td>Antagonist</td>
</tr>
<tr>
<td>Purity</td>
<td>&gt;99%</td>
</tr>
<tr>
<td>Description</td>
<td>Selective vascular (K_{ATP}) channel antagonist</td>
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</tbody>
</table>

Biological Data

Biological description
Selective vascular \(K_{ATP}\) channel antagonist (\(IC_{50}\) values are 15 and 6 \(\mu M\) for \(SUR2B/\) \(K_{6.2}\) and \(SUR2B/\) \(K_{6.1}\) channels respectively). Also \(K_{6.2}\) channel inhibitor (\(IC_{50}\) = 5.0 \(\mu M\)). Displays no activity at cardiac, pancreatic or skeletal \(k_{ATP}\) channels. Displays diuretic properties.

Solubility & Handling

Storage instructions
room temperature (desiccate)

Solubility overview
Soluble in DMSO (25mM) or ethanol (100mM)

Important
This product is for RESEARCH USE ONLY and is not intended for therapeutic or diagnostic use. Not for human or veterinary use.

Chemical Data

Chemical name
\(N\)-Cyclohexyl-\(N\)-tricyclo[3.3.1.1\(\_3,7\)]dec-1-yl-4-morpholinecarboximidamide hydrochloride

Molecular Weight
381.98

Chemical structure

Molecular formula
\(C_{21}H_{35}N_{3}O.HCl\)

CAS Number
57568-80-6

PubChem identifier
64392

SMILES
\(C1(CC3C2)CC2(N=C(N5CCOC5)NC4CCCCC4)CC(C3)C1.Cl\)

InChIKey
FZALCKUJYZCDOX-UHFFFAOYSA-N

References

Pharmacological Profile of U-37883A, a Channel Blocker of Smooth Muscle-Type ATP-Sensitive K Channels.
PubMedID 16939631

Different molecular sites of action for the KATP channel inhibitors, PNU-99963 and PNU-37883A.
Molecular analysis of the subtype-selective inhibition of cloned KATP channels by PNU-37883A.


PubMedID 14757705