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## DATASHEET

LSL60101

### Product overview

<b>Name</b>	LSL60101
<b>Cat No</b>	HB7094
<b>Alternative names</b>	Garsevil
<b>Biological action</b>	Agonist
<b>Purity</b>	>98%
<b>Description</b>	Selective I <sub>2</sub> -imidazoline receptor ligand

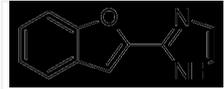
### Biological Data

<b>Biological description</b>	Selective, orally available I <sub>2</sub> -imidazoline receptor ligand (K <sub>i</sub> ratio = 286 for α <sub>2</sub> / I <sub>2</sub> receptors). Induces morphological/biochemical changes to astroglia, reduces apoptosis and modulates oxidative stress to show neuroprotective effects. Chronic low-dose treatment of LSL60101 also reverses cognitive deficits and impaired social behaviour in 5XFAD mice to alter Alzheimer's disease markers such as glial activation and synaptic dysfunction. Both LSL60101 treatment and LSL60101 / <a href="#">donepezil</a> combination treatment decreases amyloid-β <sub>40</sub> and amyloid-β <sub>42</sub> levels, amyloid-β plaque number and tau hyperphosphorylation to attenuate amyloid-β pathology in 5XFAD brains.
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### Solubility & Handling

<b>Storage instructions</b>	+4 °C
<b>Solubility overview</b>	Soluble in DMSO (100 mM), and in ethanol (100 mM)
<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>	2-(Benzofuran-2-yl)-1H-imidazole
<b>Molecular Weight</b>	184.2
<b>Chemical structure</b>	
<b>Molecular Formula</b>	C <sub>11</sub> H <sub>8</sub> N <sub>2</sub> O
<b>CAS Number</b>	150985-54-9
<b>PubChem identifier</b>	3073596
<b>SMILES</b>	C1=CC=C2C(=C1)C=C(O2)C3=NC=CN3
<b>Source</b>	Synthetic
<b>InChi</b>	InChI=1S/C11H8N2O/c1-2-4-9-8(3-1)7-10(14-9)11-12-5-6-13-11/h1-7H,(H,12,13)
<b>InChiKey</b>	VBFQIUOSXHUWCT-UHFFFAOYSA-N
<b>Appearance</b>	Off-white solid

### References

#### [Benzofuranyl-2-imidazoles as imidazoline I2 receptor ligands for Alzheimer's disease.](#)

Rodriguez-Arévalo S et al (2021) European journal of medicinal chemistry 222

**PubMedID**

34118720

**LSL 60101, a selective ligand for imidazoline I2 receptors, on glial fibrillary acidic protein concentration.**

Alemany R et al (1995) European journal of pharmacology 280

**PubMedID**

7589187

**Disease-modifying treatment with I2 imidazoline receptor ligand LSL60101 in an Alzheimer's disease mouse model: a comparative study with donepezil.**

Vasilopoulou F et al (2021) British journal of pharmacology 178

**PubMedID**

33817786

**Exploring the antidepressant-like potential of the selective I<sub>2</sub>-imidazoline receptor ligand LSL 60101 in adult male rats.**

Hernández-Hernández E et al (2021) Pharmacological reports : PR 73

**PubMedID**

32748254

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