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DATASHEET

LSL60101

Product overview

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

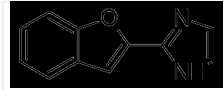
Biological Data

Biological description	Selective, orally available I ₂ -imidazoline receptor ligand (K _i ratio = 286 for α ₂ / I ₂ 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 / donepezil combination treatment decreases amyloid-β ₄₀ and amyloid-β ₄₂ levels, amyloid-β plaque number and tau hyperphosphorylation to attenuate amyloid-β pathology in 5XFAD brains.
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Solubility & Handling

Storage instructions	+4 °C
Solubility overview	Soluble in DMSO (100 mM), and in ethanol (100 mM)
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	2-(Benzofuran-2-yl)-1H-imidazole
Molecular Weight	184.2
Chemical structure	
Molecular Formula	C ₁₁ H ₈ N ₂ O
CAS Number	150985-54-9
PubChem identifier	3073596
SMILES	C1=CC=C2C(=C1)C=C(O2)C3=NC=CN3
Source	Synthetic
InChi	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)
InChiKey	VBFQIUOSXHUWCT-UHFFFAOYSA-N
Appearance	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 I₂-imidazoline receptor ligand LSL 60101 in adult male rats.

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

PubMedID

32748254
