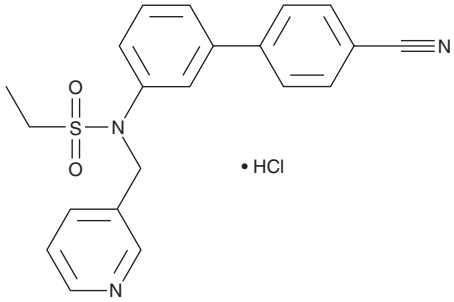
PRODUCT INFORMATION

CBiPES (hydrochloride)

Item No. 46423

CAS Registry No.:	856702-40-4
Formal Name:	N-(4′-cyano[1,1′-biphenyl]-3-yl)-N-(3-pyridinylmethyl)-ethanesulfonamide, monohydrochloride
Synonym:	LY566332
MF:	$C_{21}H_{19}N_3O_2S$ • HCl
FW:	413.9
Purity:	≥98%
Supplied as:	A solid
Storage:	-20°C
Stability:	≥4 years



Information represents the product specifications. Batch specific analytical results are provided on each certificate of analysis.

Laboratory Procedures

CBiPES (hydrochloride) is supplied as a solid. A stock solution may be made by dissolving the CBiPES (hydrochloride) in the solvent of choice, which should be purged with an inert gas. CBiPES (hydrochloride) is soluble (≥10 mg/ml) in DMSO.

Description

CBiPES is a positive allosteric modulator (PAM) of metabotropic glutamate receptor 2 (mGluR2).[1] It selectively enhances glutamate-induced increases in intracellular calcium levels in mGluR2-expressing MCB3901 cells (EC_{50} = 92.8 nM) over those expressing other mGluR subtypes at 30 µM. CBiPES decreases stress-induced hyperthermia in a mouse model of anxiety and reduces spontaneous locomotor activity and PCP-induced hyperlocomotor activity in mice. It inhibits ketamine-induced histamine release in the medial prefrontal cortex in rats at 60 mg/kg.[2] CBiPES (1 and 10 mg/kg) decreases L-DOPA- and benserazide-induced dyskinesia, psychosis-like behaviors, and parkinsonism in a marmoset model of MPTP-induced Parkinson's disease.[3]

References

1. Johnson, M.P., Barda, D., Britton, T.C., *et al.* Metabotropic glutamate 2 receptor potentiators: Receptor modulation, frequency-dependent synaptic activity, and efficacy in preclinical anxiety and psychosis model(s). *Psychopharmacology (Berl.)* **179(1),** 271-283 (2005).
2. Fell, M.J., Katner, J.S., Johnson, B.G., *et al.* Activation of metabotropic glutamate (mGlu)2 receptors suppresses histamine release in limbic brain regions following acute ketamine challenge. *Neuropharmacology* **58(3),** 632-639 (2010).
3. Frouni, I., Kwan, C., Nuara, S.G., *et al.* Effect of the $mGlu_2$ positive allosteric modulator CBiPES on dyskinesia, psychosis-like behaviours and parkinsonism in the MPTP-lesioned marmoset. *J. Neural Transm. (Vienna)* **128(1),** 73-81 (2021).

WARNING
THIS PRODUCT IS FOR RESEARCH ONLY - NOT FOR HUMAN OR VETERINARY DIAGNOSTIC OR THERAPEUTIC USE.

SAFETY DATA
This material should be considered hazardous until further information becomes available. Do not ingest, inhale, get in eyes, on skin, or on clothing. Wash thoroughly after handling. Before use, the user must review the complete Safety Data Sheet, which has been sent *via* email to your institution.

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