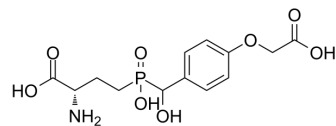


LSP4-2022

Cat. No.:	HY-117764
CAS No.:	1413405-33-0
Molecular Formula:	C ₁₃ H ₁₈ NO ₈ P
Molecular Weight:	347.26
Target:	mGluR
Pathway:	GPCR/G Protein; Neuronal Signaling
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



BIOLOGICAL ACTIVITY

Description	LSP4-2022 is a potent and brain-penetrant mGlu4-selective orthosteric agonist, with an EC ₅₀ of 0.11 μM. LSP4-2022 inhibits neurotransmission in cerebellar slices from wild-type but not mGlu4 receptor-knockout mice. LSP4-2022 shows pro-depressant activity ^{[1][2]} .		
IC₅₀ & Target	mGluR4 0.11 ± 0.0 μM (EC50)	mGluR7 11.6 ± 1.9 μM (EC50)	mGluR8 29.2 ± 4.2 μM (EC50)

REFERENCES

[1]. Goudet C, et al. A novel selective metabotropic glutamate receptor 4 agonist reveals new possibilities for developing subtype selective ligands with therapeutic potential. *FASEB J.* 2012 Apr;26(4):1682-93.

[2]. Podkowa K, Rzeźniczek S, Marciniak M, Acher F, Pilc A, Pałucha-Poniewiera A. A novel mGlu4 selective agonist LSP4-2022 increases behavioral despair in mouse models of antidepressant action. *Neuropharmacology.* 2015 Oct;97:338-45.

Caution: Product has not been fully validated for medical applications. For research use only.

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