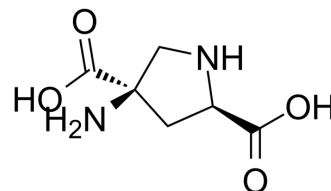


(2R,4R)-APDC

Cat. No.:	HY-102091
CAS No.:	169209-63-6
Molecular Formula:	C ₆ H ₁₀ N ₂ O ₄
Molecular Weight:	174.15
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	(2R,4R)-APDC is a selective group II metabotropic glutamate receptors (mGluRs) agonist. (2R,4R)-APDC has anticonvulsant and neuroprotective effects ^{[1][2]} .	
IC₅₀ & Target	group II mGlu receptors	
In Vivo	2R, 4R-APDC (1-10 nmol; ICV; daily for 14 days) decreases cell proliferation in the dentate gyrus ^[2] . MCE has not independently confirmed the accuracy of these methods. They are for reference only.	
	Animal Model:	Adult male Sprague-Dawley rats weighing between 300 and 350 g ^[2]
	Dosage:	1 nmol/10 µl; 10 nmol/10µl
	Administration:	ICV; daily for 14 days
	Result:	Resulted in decreased BrdU-immunoreactive cells in the DG.

REFERENCES

[1]. Folbergrová J, et al. Posttreatment with group II metabotropic glutamate receptor agonist 2R,4R-4-aminopyrrolidine-2,4-dicarboxylate is only weakly effective on seizures in immature rats. *Brain Res.* 2009 Jun 1;1273:144-54.

[2]. Yao H, et al. 2R, 4R-APDC decreases cell proliferation in the dentate gyrus of adult rats: the effect of 2R, 4R-APDC on cell proliferation. *Neuroreport.* 2007 Sep 17;18(14):1459-62.

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

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