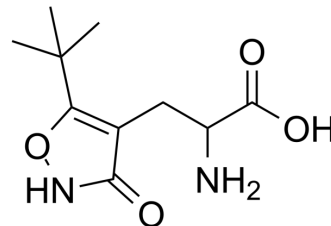


ATPA

Cat. No.:	HY-101261
CAS No.:	140158-50-5
Molecular Formula:	C ₁₀ H ₁₆ N ₂ O ₄
Molecular Weight:	228.25
Target:	iGluR
Pathway:	Membrane Transporter/Ion Channel; Neuronal Signaling
Storage:	4°C, sealed storage, away from moisture * In solvent : -80°C, 6 months; -20°C, 1 month (sealed storage, away from moisture)



SOLVENT & SOLUBILITY

In Vitro

DMSO : ≥ 100 mg/mL (438.12 mM)
* "≥" means soluble, but saturation unknown.

Preparing Stock Solutions	Solvent Concentration	Mass	1 mg	5 mg	10 mg
		1 mM	4.3812 mL	21.9058 mL	43.8116 mL
5 mM	0.8762 mL	4.3812 mL	8.7623 mL		
10 mM	0.4381 mL	2.1906 mL	4.3812 mL		

Please refer to the solubility information to select the appropriate solvent.

BIOLOGICAL ACTIVITY

Description

ATPA is a selective glutamate receptor GluR5 activator with EC₅₀s of 0.66, 9.5, 1.4, 23, 32, 18, and 14 μM for GluR5wt, GluR5(S741M), GluR5(S721T), GluR5(S721T, S741M), GluR5(S741A), GluR5(S741L), and GluR5(S741V), respectively^[1].

In Vitro

ATPA also activates GluR1wt, GluR1(M722S), GluR1(T700S), GluR1(T700S, M722S), GluR1(M722A) with EC₅₀s of 62, 4.6, 97, 14, 97 μM, respectively^[1].
MCE has not independently confirmed the accuracy of these methods. They are for reference only.

REFERENCES

[1]. Nielsen MM, et al. The selective activation of the glutamate receptor GluR5 by ATPA is controlled by serine 741. Mol Pharmacol. 2003 Jan;63(1):19-25.

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

Tel: 609-228-6898

Fax: 609-228-5909

E-mail: tech@MedChemExpress.com

Address: 1 Deer Park Dr, Suite Q, Monmouth Junction, NJ 08852, USA