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Produktinformation



Forschungsprodukte & Biochemikalien



Zellkultur & Verbrauchsmaterial



Diagnostik & molekulare Diagnostik



Laborgeräte & Service

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Lieferung & Zahlungsart

siehe unsere [Liefer- und Versandbedingungen](#)

Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

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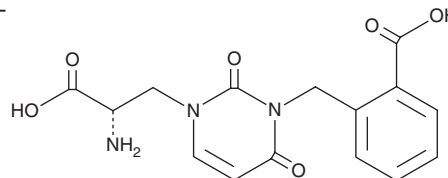
PRODUCT INFORMATION



UBP 302

Item No. 24309

CAS Registry No.: 745055-91-8
Formal Name: αS-amino-3-[(2-carboxyphenyl)methyl]-3,4-dihydro-2,4-dioxo-1(2H)-pyrimidinepropanoic acid
MF: C₁₅H₁₅N₃O₆
FW: 333.3
Purity: ≥98%
Supplied as: A solid
Storage: -20°C
Stability: ≥2 years



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

Laboratory Procedures

UBP 302 is supplied as a solid. A stock solution may be made by dissolving the UBP 302 in the solvent of choice. UBP 302 is soluble in the organic solvent DMSO, which should be purged with an inert gas, at a concentration of approximately 50 mM.

Description

UBP 302 is an antagonist of glutamate receptor 5 (GluR5) subunit-containing kainate receptors that inhibits kainate-induced responses in isolated rat dorsal roots ($K_d = 402$ nM).¹ *In vitro*, UBP 302 inhibits gamma frequency oscillations in the rat basolateral amygdala at a concentration of 25 μM, and blocks kainate receptor signaling in layer III neurons within the mouse medial entorhinal cortex at 20 μM, abrogating the intense synaptic activity characteristic of the Up state of cortical slow oscillation.^{2,3} *In vivo*, UBP 302 (250 mg/kg) significantly reduces seizure severity in a rat model of soman-induced status epilepticus.⁴

References

1. More, J.C., Nistico, R., Dolman, N.P., *et al.* Characterisation of UB296: A novel, potent and selective kainate receptor antagonist. *Neuropharmacology* **47(1)**, 46-64 (2004).
2. Randall, F.E., Whittington, M.A., and Cunningham, M.O. Fast oscillatory activity induced by kainate receptor activation in the rat basolateral amygdala *in vitro*. *Eur. J. Neurosci.* **33(5)**, 914-922 (2011).
3. Digby, R.J., Bravo, D.S., Paulsen, O., *et al.* Distinct mechanisms of Up state maintenance in the medial entorhinal cortex and neocortex. *Neuropharmacology* **113(Pt A)**, 543-555 (2017).
4. Miller, S.L., Aroniadou-Anderjaska, V., Figueiredo, T.H., *et al.* A rat model of nerve agent exposure applicable to the pediatric population: The anticonvulsant efficacies of atropine and GluK1 antagonists. *Toxicol. Appl. Pharmacol.* **284(2)**, 204-216 (2015).

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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