UPF-523

Cat. No.: HY-101311
CAS No.: 168560-79-0
Molecular Formula: C₁₁H₁₁NO₄
Molecular Weight: 221.21
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
UPF-523 (AIDA), a rigid (carboxyphenyl) glycine derivative, is a relatively potent and selective antagonist of group I metabotropic glutamate receptors (mGlu1a) with an IC₅₀ of 214 μM. But UPF-523 has no effect on group II (mGlu2), group III (mGlu4) receptors or ionotropic glutamate receptors. UPF-523 has the potential for the research of the acute arthritis[1][2].

IC₅₀ & Target
| mGluR1a | 214 μM (IC₅₀) |

In Vivo
UPF-523 (0.18 mg/kg; i.p.; 0.5 ml per 100 g) results in a final concentration of 100–150 mM which is below an IC50 of 214 mM [1].
MCE has not independently confirmed the accuracy of these methods. They are for reference only.

Animal Model: Naive male hooded Lister rats (320–350 g)[3]
Dosage: 0.18 mg/kg
Administration: I.p.; 0.5 ml per 100 g
Result: Showed no gross motor abnormalities and normal righting reflexes.

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

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