

Certificate of Analysis

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Product Name: CPPHA

Catalog No.: 4787

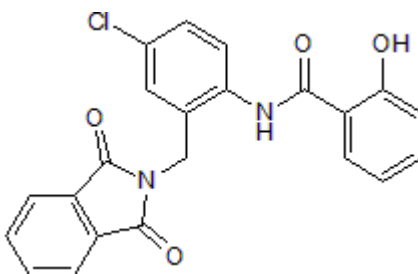
Batch No.: 1

CAS Number: 693288-97-0

IUPAC Name: *N*-[4-Chloro-2-[(1,3-dihydro-1,3-dioxo-2*H*-isoindol-2-yl)methyl]phenyl]-2-hydroxybenzamide

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: C₂₂H₁₅ClN₂O₄
Batch Molecular Weight: 406.82
Physical Appearance: White solid
Solubility: DMSO to 100 mM
Storage: Store at -20°C
Batch Molecular Structure:



2. ANALYTICAL DATA

HPLC: Shows 98.7% purity
¹H NMR: Consistent with structure
Mass Spectrum: Consistent with structure

Microanalysis:

	Carbon	Hydrogen	Nitrogen
Theoretical	64.95	3.72	6.89
Found	64.84	3.73	6.77

Caution - Not Fully Tested • Research Use Only • Not For Human or Veterinary Use

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Description:

Positive allosteric modulator at mGlu₁ and mGlu₅; thought to act at a novel allosteric site. Potentiates mGlu₅ responses by a mechanism distinct from that of VU 29 (Cat. No. 4458).

Physical and Chemical Properties:

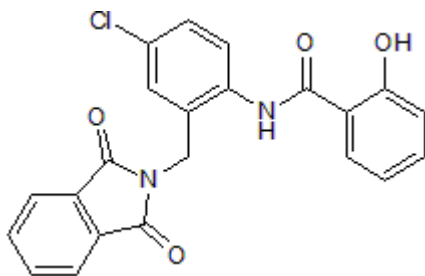
Batch Molecular Formula: C₂₂H₁₅ClN₂O₄

Batch Molecular Weight: 406.82

Physical Appearance: White solid

Minimum Purity: >98%

Batch Molecular Structure:



Storage: Store at -20°C

Solubility & Usage Info:

DMSO to 100 mM

Stability and Solubility Advice:

Some solutions can be difficult to obtain and can be encouraged by rapid stirring, sonication or gentle warming (in a 45-60°C water bath).

Information concerning product stability, particularly in solution, has rarely been reported and in most cases we can only offer a general guide. Our standard recommendations are:

SOLIDS: Provided storage is as stated on the product label and the vial is kept tightly sealed, the product can be stored for up to 6 months from date of receipt.

SOLUTIONS: We recommend that stock solutions, once prepared, are stored aliquoted in tightly sealed vials at -20°C or below and used within 1 month. Wherever possible solutions should be made up and used on the same day.

References:

O'Brien et al (2004) A novel selective allosteric modulator potentiates the activity of native metabotropic glutamate receptor subtype 5 in rat forebrain. *J.Pharmacol.Exp.Ther.* **309** 568. PMID: 14747613.

Chen et al (2008) *N*-[4-Chloro-2-[(1,3-dioxo-1,3-dihydro-2*H*-isoindol-2-yl)methyl]phenyl]-2-hydroxybenzamide (CPPHA) acts through a novel site as a positive allosteric modulator of group 1 metabotropic glutamate receptors. *J.Pharmacol.Exp.Ther.* **73** 909. PMID: 18056795.

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