

Certificate of Analysis

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Product Name: (±)-ADX 71743

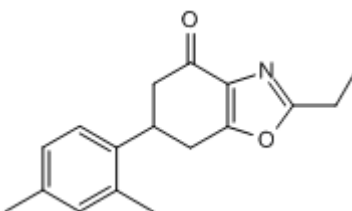
Catalog No.: 5715

Batch No.: 2

IUPAC Name: 6-(2,4-Dimethylphenyl)-2-ethyl-6,7-dihydro-4(5H)-benzoxazolone

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: C₁₇H₁₉NO₂
Batch Molecular Weight: 269.34
Physical Appearance: White solid
Solubility: DMSO to 100 mM
 ethanol to 100 mM
Storage: Store at -20°C
Batch Molecular Structure:



2. ANALYTICAL DATA

TLC: R_f = 0.65 (Ethyl acetate:Petroleum ether [33:67])
HPLC: Shows >99.9% purity
¹H NMR: Consistent with structure
Mass Spectrum: Consistent with structure

Microanalysis:

	Carbon	Hydrogen	Nitrogen
Theoretical	75.81	7.11	5.2
Found	75.88	7.27	5.11

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

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Description:

Negative allosteric modulator at mGlu₇ (IC₅₀ = 300 nM). Blocks high frequency-induced LTP at SC-CA1 synapses in hippocampal slices in vitro. Increases evoked excitatory postsynaptic currents (eEPSCs) in mice. Brain penetrant.

Physical and Chemical Properties:

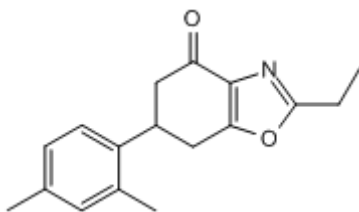
Batch Molecular Formula: C₁₇H₁₉NO₂

Batch Molecular Weight: 269.34

Physical Appearance: White solid

Minimum Purity: >98%

Batch Molecular Structure:



Storage: Store at -20°C

Solubility & Usage Info:

DMSO to 100 mM

ethanol 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:

Tassin *et al* (2016) Phasic and tonic mGlu₇ receptor activity modulates the thalamocortical network. *Front Neural Circuits* **10** 31. PMID: 27199672.

Klar *et al* (2015) Activation of metabotropic glutamate receptor 7 is required for induction of long-term potentiation at SC-CA1 synapses in the hippocampus. *J.Neurosci.* **35** 7600. PMID: 25972184 .

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