

Certificate of Analysis

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Product Name: AA 29504

Catalog No.: 3972

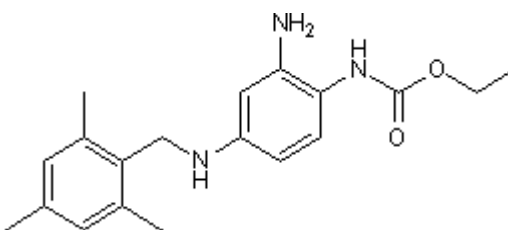
Batch No.: 1

CAS Number: 945828-50-2

IUPAC Name: *N*¹-Ethoxycarbonyl-*N*⁴-[(2,4,6-trimethylphenyl)methyl]-1,2,4-triaminobenzene

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: C₁₉H₂₅N₃O₂
Batch Molecular Weight: 327.42
Physical Appearance: Off-white solid
Solubility: DMSO to 100 mM
Storage: Store at +4°C
Batch Molecular Structure:



2. ANALYTICAL DATA

TLC: R_f = 0.38 (Petrol: Ethyl Acetate: Aqueous ammonia (4:6:0.1))
HPLC: Shows 98.2% purity
¹H NMR: Consistent with structure
Mass Spectrum: Consistent with structure
Microanalysis:

	Carbon	Hydrogen	Nitrogen
Theoretical	69.7	7.7	12.83
Found	69.63	7.71	12.86

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

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Description:

Positive allosteric modulator of GABA_A receptors. Modulates both $\alpha_4\beta_3\delta$ -containing extrasynaptic receptors and $\alpha_1\beta_3\gamma_{2S}$ -containing receptors in *Xenopus* oocytes, displaying a stronger modulatory effect at the former. Reduces motor coordination and exhibits anxiolytic effects in vivo.

Physical and Chemical Properties:

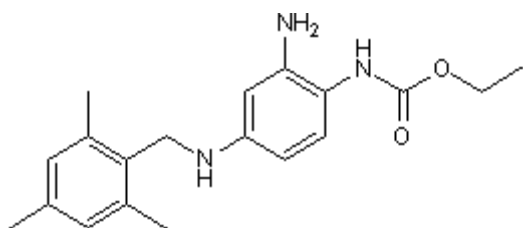
Batch Molecular Formula: C₁₉H₂₅N₃O₂

Batch Molecular Weight: 327.42

Physical Appearance: Off-white solid

Minimum Purity: >98%

Batch Molecular Structure:



References:

Hoestgaard-Jensen et al (2010) Pharmacological characterization of a novel positive modulator at $\alpha_4\beta_3\delta$ -containing extrasynaptic GABA_A receptors. *Neuropharmacology* **58** 702. PMID: 20060846.

Storage: Store at +4°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.

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