



Certificate of Analysis

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Product Name: ASP 2535 Catalog No.: 5308 Batch No.: 1

CAS Number: 374886-51-8

IUPAC Name: 4-[3-(1-Methylethyl)-5-(6-phenyl-3-pyridinyl)-4*H*-1,2,4-triazol-4-yl]-2,1,3-benzoxadiazole

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: $C_{22}H_{18}N_6O$ Batch Molecular Weight:382.42Physical Appearance:Yellow solid

Solubility: DMSO to 100 mM ethanol to 100 mM

Storage: Store at -20°C

Batch Molecular Structure:

2. ANALYTICAL DATA

TLC: $R_f = 0.59$ (Chloroform:Methanol [9:1])

HPLC: Shows 99.5% purity

¹H NMR: Consistent with structure

Mass Spectrum: Consistent with structure

Microanalysis: Carbon Hydrogen Nitrogen

Theoretical 69.1 4.74 21.98 Found 69.22 4.7 22.05





Product Information

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Description:

Potent and selective GlyT1 inhibitor (IC₅₀ = 92 nM). Exhibits 50fold selectivity over GlyT2. Attenuates MK 801-induced working memory deficits and PCP-induced visual learning deficits in mice. Orally available and brain penetrant.

Physical and Chemical Properties:

Batch Molecular Formula: C₂₂H₁₈N₆O Batch Molecular Weight: 382.42 Physical Appearance: Yellow 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:

Harada et al (2012) A novel glycine transporter-1 (GlyT1) inhibitor, ASP2535 (4-[3-isopropyl-5-(6-phenyl-3-pyridyl)-4H-1,2,4-triazol-4-yl] 2,1,3-benzoxadiazole), improves cognition in animal models of cognitive impairment in schizophrenia and Alzheimer's disease. Eur.J.Pharmacol. 685 59. PMID: 22542656.

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