

Product Name: L-732,138

Catalog No.: 0868

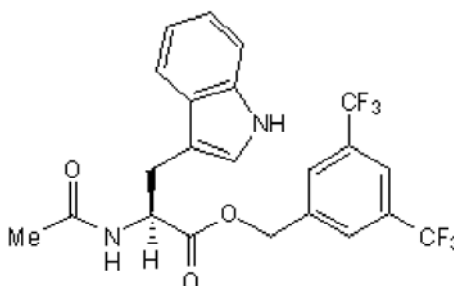
Batch No.: 3

CAS Number: 148451-96-1

IUPAC Name: *N*-Acetyl-L-tryptophan 3,5-*bis*-(trifluoromethyl)benzyl ester

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: C₂₂H₁₈F₆N₂O₃
Batch Molecular Weight: 472.39
Physical Appearance: White solid
Solubility: ethanol to 100 mM
DMSO to 100 mM
Storage: Store at RT
Batch Molecular Structure:



2. ANALYTICAL DATA

TLC: R_f = 0.73 (Ethyl acetate:Petroleum ether [4:1])
HPLC: Shows >99.9% purity
¹H NMR: Consistent with structure
Mass Spectrum: Consistent with structure
Microanalysis:

	Carbon	Hydrogen	Nitrogen
Theoretical	55.94	3.84	5.93
Found	56.09	3.88	6.07

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

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IUPAC Name: *N*-Acetyl-L-tryptophan 3,5-bis(trifluoromethyl)benzyl ester

Description:

Potent and highly selective competitive tachykinin NK₁ receptor antagonist (IC₅₀ = 2.3 nM).

Physical and Chemical Properties:

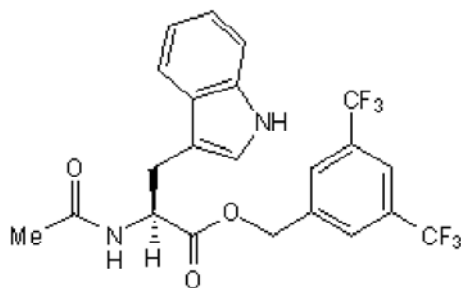
Batch Molecular Formula: C₂₂H₁₈F₆N₂O₃

Batch Molecular Weight: 472.39

Physical Appearance: White solid

Minimum Purity: >98%

Batch Molecular Structure:



Storage: Store at RT

Solubility & Usage Info:

ethanol to 100 mM

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.

Licensing Information:

Sold with the permission of Merck Sharp and Dohme Ltd.

References:

Kuo et al (1998) Lipopolysaccharide enhances neurogenic plasma exudation in guinea-pig airways. *Br.J.Pharmacol.* **125** 711. PMID: 9831906.

Cascieri et al (1994) Characterization of the interaction of *N*-acyl-L-tryptophan benzyl ester neurokinin antagonists with the human neurokinin-1 receptor. *J.Biol.Chem.* **269** 6587. PMID: 7509807.

MacLeod et al (1994) Identification of L-tryptophan derivatives with potent and selective antagonist activity at the NK₁ receptor. *J.Med.Chem.* **37** 1269. PMID: 7513763.

MacLeod et al (1993) *N*-Acyl-L-tryptophan benzyl esters: potent substance P receptor antagonists. *J.Med.Chem.* **36** 2044. PMID: 8393115.

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