

Product Name: L-817,818

Catalog No.: 1980

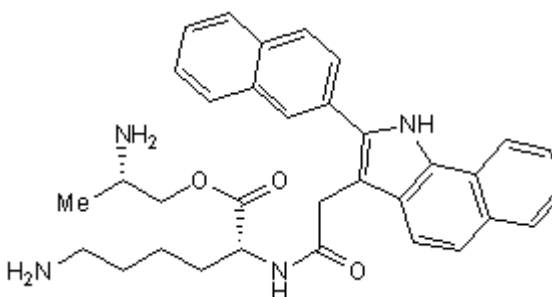
Batch No.: 2

CAS Number: 217480-27-8

IUPAC Name: *N*²-[[2-(2-Naphthalenyl)-1*H*-benz[*g*]indol-3-yl]acetyl-D-lysine (2*S*)-2-aminopropyl ester

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: C₃₃H₃₆N₄O₃·1½H₂O
Batch Molecular Weight: 559.19
Physical Appearance: White solid
Solubility: DMSO to 100 mM
Storage: Store at -20°C
Batch Molecular Structure:



2. ANALYTICAL DATA

TLC: R_f = 0.2 (Dichloromethane:Methanol [9:1])
HPLC: Shows >99.8% purity
¹H NMR: Consistent with structure
Mass Spectrum: Consistent with structure
Optical Rotation: [α]_D = -34.2 (Concentration = 1, Solvent = DMSO)
Microanalysis:

	Carbon	Hydrogen	Nitrogen
Theoretical	70.88	6.94	10.02
Found	71.05	6.55	10.13

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

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Description:

Potent and selective somatostatin sst₅ receptor agonist. K_i values are 0.4, 3.3, 52, 64 and 82 nM for cloned human sst₅, sst₁, sst₂, sst₃ and sst₄ receptors respectively. Inhibits growth hormone release from rat pituitary cells (EC₅₀ = 3.1 nM) and insulin release from mouse pancreatic islets (EC₅₀ = 0.3 nM) *in vitro*.

Physical and Chemical Properties:

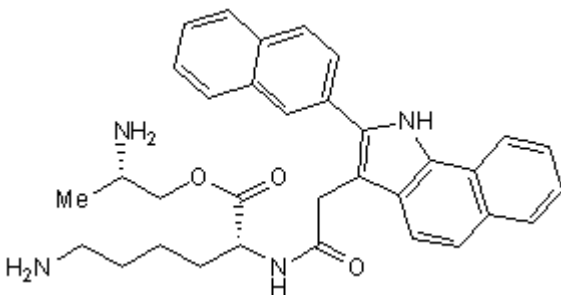
Batch Molecular Formula: C₃₃H₃₆N₄O₃·1¼H₂O

Batch Molecular Weight: 559.19

Physical Appearance: White solid

Minimum Purity: >99%

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:

Rohrer *et al* (1998) Rapid identification of subtype-selective agonists of the somatostatin receptor through combinatorial chemistry. *Science* **282** 737. PMID: 9784130.

Rohrer and Schaeffer (2000) Identification and characterization of subtype selective somatostatin receptor agonists. *J.Physiol.Paris* **94** 211. PMID: 11087999.

Strowski *et al* (2000) Somatostatin inhibits insulin and glucagon secretion via two receptor subtypes: An *in vitro* study of pancreatic islets from somatostatin receptor 2 knockout mice. *Endocrinology* **141** 111. PMID: 10614629.

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