

Certificate of Analysis

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Product Name: Galnon

Catalog No.: 2085

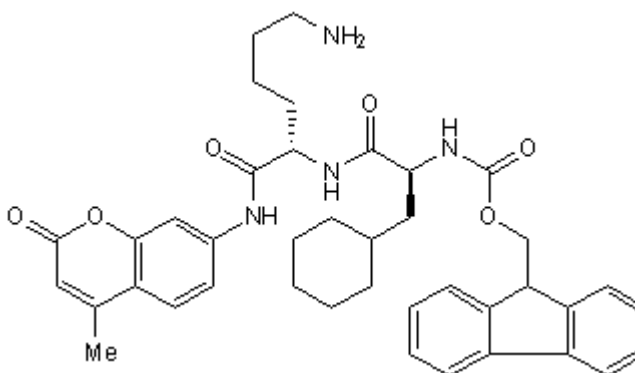
Batch No.: 1

CAS Number: 475115-35-6

IUPAC Name: 3-Cyclohexyl-*N*-[(9*H*-fluoren-9-ylmethoxy)carbonyl]-*L*-alanyl-*N*-(4-methyl-2-oxo-2*H*-1-benzopyran-7-yl)-*L*-lysineamide

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula:	C ₄₀ H ₄₆ N ₄ O ₆
Batch Molecular Weight:	678.83
Physical Appearance:	White solid
Net Peptide Content:	79%
Solubility:	Soluble to 67.88 mg/ml in DMSO Soluble to 16.97 mg/ml in ethanol
Storage:	Desiccate at -20°C
Peptide Sequence:	



2. ANALYTICAL DATA

HPLC:	Shows >98.6% purity
Mass Spectrum:	Consistent with structure

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

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Description:

Novel non-peptide galanin GAL₁ and GAL₂ receptor agonist (K_i values are 11.7 and 34.1 μM respectively). Stimulates insulin release in isolated pancreatic islets from normal and diabetic rats. Systemically active in vivo; displays anticonvulsant activity following i.p. administration in mice. Central and peripheral administration also transiently inhibits food intake in rats and mice.

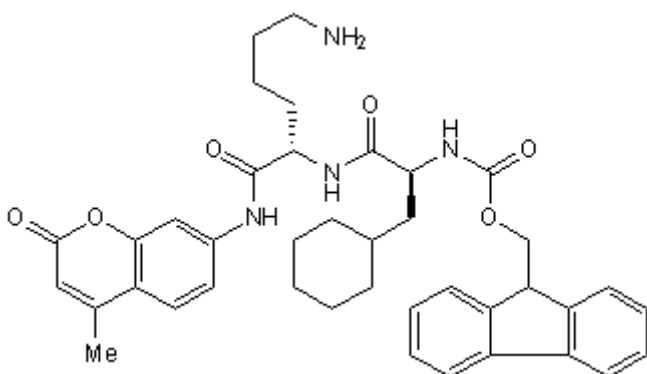
Physical and Chemical Properties:

Batch Molecular Formula: C₄₀H₄₆N₄O₆

Batch Molecular Weight: 678.83

Physical Appearance: White solid

Peptide Sequence:



Storage: Desiccate at -20°C

Solubility & Usage Info:

Soluble to 67.88 mg/ml in DMSO Soluble to 16.97 mg/ml in ethanol

Net Peptide Content: 79% (Remaining weight made up of counterions and residual water).

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).

Peptides in solution are much less stable than in lyophilized form. This is especially true for peptides whose sequences contain amino acids such as Cys, Met, Trp, Asn, Gln, and N-terminal Glu.

Therefore we recommend storing peptides in solution for as short a time as possible. Avoid repeated freeze thaw cycles by dividing the peptide solution into aliquots and storing the aliquots at -20°C. Any portion of an aliquot unused after thawing should be discarded.

Peptides stored in solution can occasionally be susceptible to bacterial degradation. We recommend using sterile solutions or passing the peptide solution through a 0.2 μm filter to remove potential bacterial contamination whenever possible.

References:

Saar *et al* (2002) Anticonvulsant activity of a nonpeptide galanin receptor agonist Proc.Natl.Acad.Sci.USA **99** 7136. PMID: 12011470.

Abramov *et al* (2004) Regulation of feeding by galnon. Neuropeptides **38** 55. PMID: 15003717.

Lu *et al* (2005) A role for galanin in antidepressant actions with a focus on the dorsal raphe nucleus. Proc.Natl.Acad.Sci. **102** 874. PMID: 15647369.

Quynh *et al* (2005) Effects of galnon, a non-peptide galanin-receptor agonist, on insulin release from rat pancreatic islets. Biochem.Biophys.Res.Comm. **328** 213. PMID: 15670772.

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