

Certificate of Analysis

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Product Name: BIIE 0246

Catalog No.: 1700

Batch No.: 5

CAS Number: 246146-55-4

IUPAC Name: *N*-[*(1S)*-4-[(Aminoiminomethyl)amino]-1-[[[2-(3,5-dioxo-1,2-diphenyl-1,2,4-triazolidin-4-yl)ethyl]amino]carbonyl]butyl]-1-[2-[4-(6,11-dihydro-6-oxo-5*H*-dibenz[*b*,*e*]azepin-11-yl)-1-piperazinyl]-2-oxoethyl]-cyclopentaneacetamide

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: C₄₉H₅₇N₁₁O₆.¼H₂O

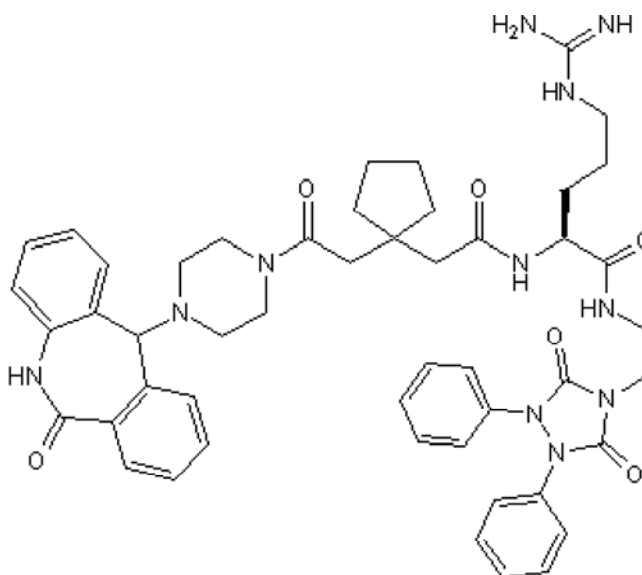
Batch Molecular Weight: 900.56

Physical Appearance: White solid

Solubility: ethanol to 25 mM
DMSO to 75 mM

Storage: Store at +4°C

Batch Molecular Structure:



2. ANALYTICAL DATA

HPLC: Shows 100% purity

^1H NMR: Consistent with structure

Mass Spectrum: Consistent with structure

Microanalysis:

Carbon Hydrogen Nitrogen

Theoretical	65.35	6.44	17.11
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Found	65.17	6.66	17.06
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Caution - Not Fully Tested • Research Use Only • Not For Human or Veterinary Use

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Tel: +1 612 379 2956

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Description:

Potent, selective and competitive non-peptide antagonist for the neuropeptide Y Y₂ receptor (IC₅₀ = 15 nM). Displays > 650-fold selectivity over Y₁, Y₄ and Y₅ receptors. Active in vivo.

Physical and Chemical Properties:

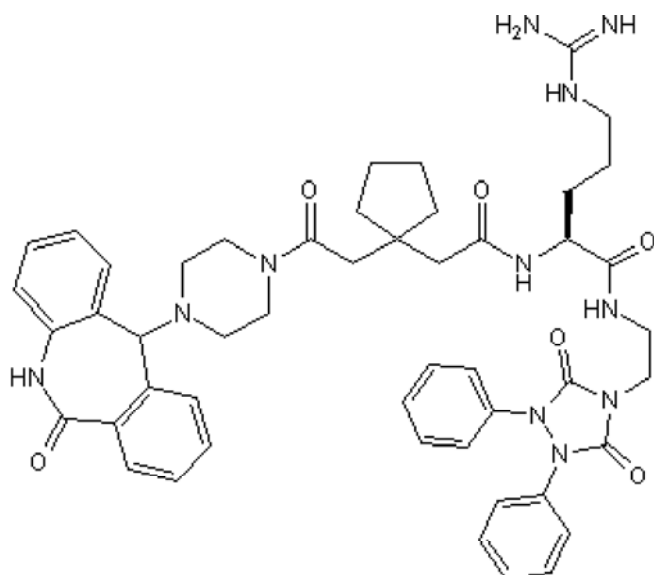
Batch Molecular Formula: C₄₉H₅₇N₁₁O₆·¼H₂O

Batch Molecular Weight: 900.56

Physical Appearance: White solid

Minimum Purity: >98%

Batch Molecular Structure:



Storage: Store at +4°C

Solubility & Usage Info:

ethanol to 25 mM

DMSO to 75 mM

When purchased as a 1mg unit, this product is supplied as a lyophilized solid and may be very hard to visualize. Solutions should be made by adding solvent directly to the vial. The vial should then be vortexed vigorously to ensure the product has completely dissolved.

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:

Malmstrom (2001) Vascular pharmacology of BIIE0246, the first selective non-peptide neuropeptide Y Y₂ receptor antagonist, *in vivo*. Br.J.Pharmacol. **133** 1073. PMID: 11487518.

Dumont et al (2000) BIIE0246, a potent and highly selective non-peptide neuropeptide Y Y₂ receptor antagonist. Br.J.Pharmacol. **129** 1075. PMID: 10725255.

Doods et al (1999) BIIE0246: a selective and high affinity neuropeptide Y Y₂ receptor antagonist. Eur.J.Pharmacol. **384** R3. PMID: 10611450.

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