TOCRIS
a bio-techne brand

Print Date: Jan 15th 2016

Certificate of Analysis

www.tocris.com

Product Name: **Tabimorelin hemifumarate** **Catalog No.: 2308** **Batch No.: 1**

CAS Number: 242143-80-2

IUPAC Name: *N*-[(2*E*)-5-Amino-5-methyl-1-oxo-2-hexenyl]-*N*-methyl-3-(2-naphthalenyl)-D-alanyl-*N*,*N*α-dimethyl-D-phenylalaninamide hemifumarate

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: $C_{32}H_{40}N_4O_3.½C_4H_4O_4.½H_2O$

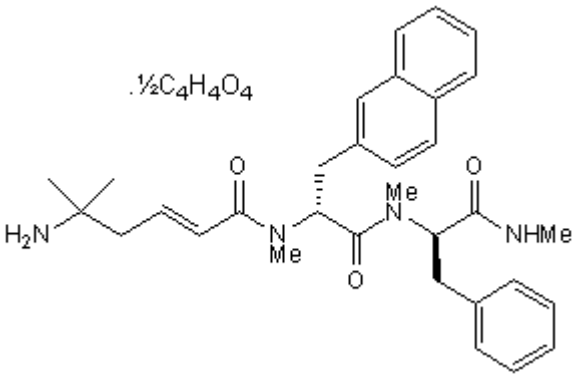
Batch Molecular Weight: 595.73

Physical Appearance: White solid

Solubility: water to 10 mM with gentle warming
DMSO to 100 mM

Storage: Desiccate at RT

Batch Molecular Structure:



2. ANALYTICAL DATA

HPLC: Shows >98.2% purity

^{1}H NMR: Consistent with structure

Mass Spectrum: Consistent with structure

Microanalysis:

	Carbon	Hydrogen	Nitrogen
Theoretical	68.55	7.27	9.4
Found	68.38	7.15	9.3

bio-techne.com
info@bio-techne.com
techsupport@bio-techne.com

North America
Tel: (800) 343 7475

China
info.cn@bio-techne.com
Tel: +86 (21) 52380373

Europe Middle East Africa
Tel: +44 (0)1235 529449

Rest of World
www.tocris.com/distributors
Tel:+1 612 379 2956

Product Information

www.tocris.com

Product Name: **Tabimorelin hemifumarate** **Catalog No.: 2308** **Batch No.: 1**

CAS Number: 242143-80-2

IUPAC Name: *N*-[(2*E*)-5-Amino-5-methyl-1-oxo-2-hexenyl]-*N*-methyl-3-(2-naphthalenyl)-D-alanyl-*N*,*N*α-dimethyl-D-phenylalaninamide hemifumarate

Description:

Potent, orally active ghrelin receptor (GHS-R1a) agonist (K_i = 50 nM at human recombinant GHS-R1a). Stimulates GH release from rat pituitary cells with an EC_{50} value of 2.7 nM. Induces hyperphagia and adiposity in lean rats, but not in leptin signaling-deficient ZDF rats.

Physical and Chemical Properties:

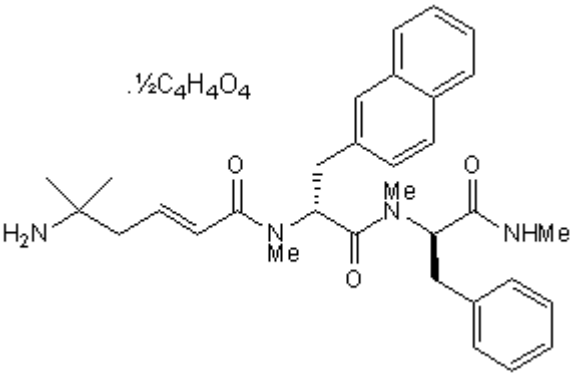
Batch Molecular Formula: $C_{32}H_{40}N_4O_3.½C_4H_4O_4.½H_2O$

Batch Molecular Weight: 595.73

Physical Appearance: White solid

Minimum Purity: >98%

Batch Molecular Structure:



Storage: Desiccate at RT

CAUTION - This product is light sensitive and we recommend that the solid material and any solutions obtained are protected from exposure to light.

Solubility & Usage Info:

water to 10 mM with gentle warming
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:

Hansen *et al* (1999) Pharmacological characterisation of a new oral GH secretagogue, NN703. Eur.J.Endocrinol. ***141*** 180. PMID: 10427162.

Holm *et al* (2004) Adipogenic and orexigenic effects of the ghrelin-receptor ligand tabimorelin are diminished in leptin-signalling-deficient ZDF rats. Eur.J.Pharmacol. ***150*** 893.