

Product Name: L-692,585

Catalog No.: 2261

Batch No.: 4

CAS Number: 145455-35-2

IUPAC Name: 3-[[[(2R)-2-Hydroxypropyl]amino]-3-methyl-N-[(3R)-2,3,4,5-tetrahydro-2-oxo-1-[[2'-(1H-tetrazol-5-yl)[1,1'-biphenyl]-4-yl]methyl]-1H-1-benzazepin-3-yl]-butanamide

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: C₃₂H₃₇N₇O₃·2½H₂O

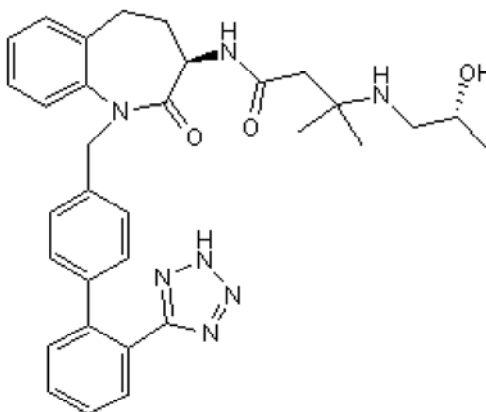
Batch Molecular Weight: 612.73

Physical Appearance: White solid

Solubility: DMSO to 100 mM
ethanol to 25 mM

Storage: Desiccate at -20°C

Batch Molecular Structure:



2. ANALYTICAL DATA

TLC: R_f = 0.28 (Chloroform:Methanol [7:3])

HPLC: Shows >98.7% purity

¹H NMR: Consistent with structure

Mass Spectrum: Consistent with structure

Microanalysis:

	Carbon	Hydrogen	Nitrogen
Theoretical	62.73	6.91	16
Found	62.36	7.2	15.84

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

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

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Description:

Highly potent, non-peptide ghrelin receptor (GHS-R1a) agonist ($K_i = 0.8$ nM). Increases plasma GH levels in vivo and is 2- to 2.5-fold more potent than GHRP-6.

Physical and Chemical Properties:

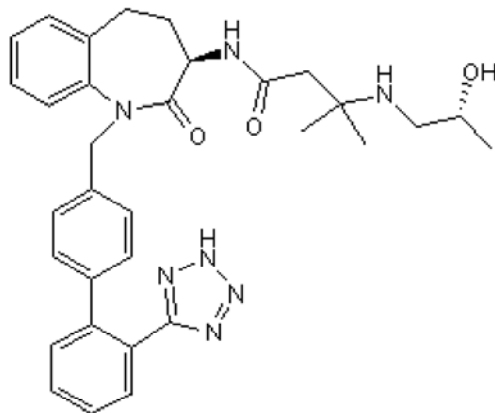
Batch Molecular Formula: $C_{32}H_{37}N_7O_3 \cdot 2\frac{1}{2}H_2O$

Batch Molecular Weight: 612.73

Physical Appearance: White solid

Minimum Purity: $\geq 98\%$

Batch Molecular Structure:



Storage: Desiccate at $-20^{\circ}C$

Solubility & Usage Info:

DMSO to 100 mM

ethanol to 25 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 $45-60^{\circ}C$ 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 $-20^{\circ}C$ or below and used within 1 month. Wherever possible solutions should be made up and used on the same day.

References:

Glavaski-Joksimovic et al (2002) Mechanism of action of the GH secretagogue, L-692,585, on isolated porcine somatotropes. *J.Endocrinol.* **175** 625. PMID: 12475374.

Smith et al (1999) Peptidomimetic regulation of GH secretion. *Endocrine Rev.* **18** 621.

Jacks et al (1994) Effects of acute and repeated intravenous administration of L-692,585, a novel non-peptidyl GH secretagogue, on plasma GH, IGF-1, ACTH, cortisol, prolactin, Ins, and thyroxine levels in beagles. *J.Endocrinol.* **143** 399. PMID: 7830002.

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North America

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