## L-692585

Cat. No.:	HY-50760		
CAS No.:	145455-35-2		
Molecular Formula:	C <sub>32</sub> H <sub>37</sub> N <sub>7</sub> O <sub>3</sub>		
Molecular Weight:	567.68		
Target:	GHSR		
Pathway:	GPCR/G Protein		
Storage:	Powder	-20°C	3 years
		4°C	2 years
	In solvent	-80°C	6 months
		-20°C	1 month

## SOLVENT & SOLUBILITY

	Preparing Stock Solutions	Solvent Mass Concentration	1 mg	5 mg	10 mg		
		1 mM	1.7616 mL	8.8078 mL	17.6156 mL		
		5 mM	0.3523 mL	1.7616 mL	3.5231 mL		
		10 mM	0.1762 mL	0.8808 mL	1.7616 mL		
	Please refer to the sc	Please refer to the solubility information to select the appropriate solvent.					
In Vivo	1. Add each solvent one by one: 10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline Solubility: 2.5 mg/mL (4.40 mM); Clear solution; Need ultrasonic						
		2. Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline) Solubility: 2.5 mg/mL (4.40 mM); Clear solution; Need ultrasonic					
	3. Add each solvent one by one: 10% DMSO >> 90% corn oil Solubility: 2.5 mg/mL (4.40 mM); Clear solution; Need ultrasonic						

BIOLOGICAL ACTIVITY				
BIOLOGICALEACHAIT				
Description	L-692585 is a potent and nonpeptidyl growth hormone secretagogue receptor (GHS-R1a) agonist, with a K <sub>i</sub> of 0.8 nM. L- 692585 acts directly on somatotropes causing GH release <sup>[1][2]</sup> .			
IC <sub>50</sub> & Target	Ki: 0.8 nM (GHS-R1a) <sup>[1]</sup>			
In Vitro	L-692585 (10 $\mu$ M; 2 min) produces a prompt transient increase in [Ca <sup>2+</sup> ] <sub>i</sub> , following by the sustained decline to a plateau above the basal level in GH cells <sup>[2]</sup> .			

N<sup>N</sup>N MH

OH H

0 <sup>0</sup>≈

N



	somatotropes <sup>[2]</sup> . L-692585 (100 nM) signi secretion index (TSI) <sup>[2]</sup>	ently confirmed the accuracy of these methods. They are for reference only.	
In Vivo	L-692585 (0.005-0.1 mg fold at a dose of 0.02 m	L-692585 (0.01-0.1 mg/kg; i.v. once daily for 2 weeks) increases peak plasma GH levels and total GH release <sup>[3]</sup> . L-692585 (0.005-0.1 mg/kg; a single i.v.) significantly increases peak GH concentrations 4.3-fold at a dose of 0.005 mg/kg, 7- fold at a dose of 0.02 mg/kg, and 21-fold at a dose of 0.10 mg/kg in vivo <sup>[3]</sup> . MCE has not independently confirmed the accuracy of these methods. They are for reference only.	
	Animal Model:	Beagles (1-1.5 years old ; weighting 8.5-16.0 kg) <sup>[3]</sup>	
	Dosage:	0.01, 0.1 mg/kg	
	Administration:	I.v. once daily for 2 weeks	
	Result:	Increased the peak plasma GH levels and total GH release on days 1, 8 and 15 in a dose- dependent manner, and no desensitization was evident.	

## REFERENCES

[1]. Smith RG, et, al. Peptidomimetic regulation of growth hormone secretion. Endocr Rev. 1997 Oct; 18(5): 621-45.

[2]. Glavaski-Joksimovic A, et, al. Mechanism of action of the growth hormone secretagogue, L-692,585, on isolated porcine somatotropes. J Endocrinol. 2002 Dec; 175(3): 625-36.

[3]. Jacks T, et, al. Effects of acute and repeated intravenous administration of L-692,585, a novel non-peptidyl growth hormone secretagogue, on plasma growth hormone, IGF-1, ACTH, cortisol, prolactin, insulin, and thyroxine levels in beagles. J Endocrinol. 1

Caution: Product has not been fully validated for medical applications. For research use only.

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