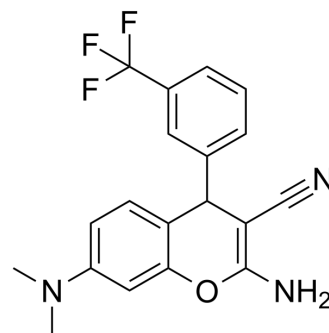


## Chromeceptin

<b>Cat. No.:</b>	HY-115449		
<b>CAS No.:</b>	331859-86-0		
<b>Molecular Formula:</b>	C <sub>19</sub> H <sub>16</sub> F <sub>3</sub> N <sub>3</sub> O		
<b>Molecular Weight:</b>	359.35		
<b>Target:</b>	Akt; IGF-1R; mTOR		
<b>Pathway:</b>	PI3K/Akt/mTOR; Protein Tyrosine Kinase/RTK		
<b>Storage:</b>	Powder	-20°C	3 years
		4°C	2 years
	In solvent	-80°C	6 months
		-20°C	1 month



### SOLVENT & SOLUBILITY

#### In Vitro

DMSO : 100 mg/mL (278.28 mM; Need ultrasonic)  
 H<sub>2</sub>O : < 0.1 mg/mL (ultrasonic;warming;heat to 60°C) (insoluble)

Preparing Stock Solutions	Solvent Concentration	Mass		
		1 mg	5 mg	10 mg
	1 mM	2.7828 mL	13.9140 mL	27.8280 mL
	5 mM	0.5566 mL	2.7828 mL	5.5656 mL
	10 mM	0.2783 mL	1.3914 mL	2.7828 mL

Please refer to the solubility information to select the appropriate solvent.

#### In Vivo

1. Add each solvent one by one: 50% PEG300 >> 50% saline  
 Solubility: 10 mg/mL (27.83 mM); Suspended solution; Need ultrasonic

### BIOLOGICAL ACTIVITY

#### Description

Chromeceptin (94G6) is an IGF signaling pathway inhibitor. Chromeceptin suppresses IGF2 expression at mRNA and protein levels in hepatocyte and HCC cells. Chromeceptin inhibits the phosphorylation levels of AKT and mTOR<sup>[1]</sup>.

#### In Vitro

Chromeceptin (94G6) (5 μM) inhibits IGF2 expression in Hep3B-derived TS cells in a time-dependent manner<sup>[1]</sup>. Chromeceptin decreases the Phosphorylation levels of protein kinase B (AKT, Ser463) and rapamycin (mTOR, Ser 2481 and Ser 2448) in TS cells<sup>[1]</sup>. Chromeceptin represses the phosphorylation at ser371 in mTOR effectors ribosomal protein S6 kinase (p70S6K)<sup>[1]</sup>. MCE has not independently confirmed the accuracy of these methods. They are for reference only.

### REFERENCES

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[1]. Seol HS, et al. Loss of miR-100 and miR-125b results in cancer stem cell properties through IGF2 upregulation in hepatocellular carcinoma. Sci Rep. 2020 Dec 8;10(1):21412.

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

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