

## (Sar1)-Angiotensin II

Cat. No.:	HY-P3138
CAS No.:	51833-69-3
Molecular Formula:	C <sub>49</sub> H <sub>71</sub> N <sub>13</sub> O <sub>10</sub>
Molecular Weight:	1002.17
Sequence Shortening:	{Sar}-RVIIHPF
Target:	Angiotensin Receptor
Pathway:	GPCR/G Protein
Storage:	Sealed storage, away from moisture and light, under nitrogen
	Powder    -80°C    2 years
	-20°C    1 year
	* In solvent : -80°C, 6 months; -20°C, 1 month (sealed storage, away from moisture and light, under nitrogen)

### BIOLOGICAL ACTIVITY

Description	(Sar1)-Angiotensin II, an analogue of Angiotensin II, is a specific agonist of angiotensin AT1 receptor. (Sar1)-Angiotensin II binds to brain membrane-rich particles, with a K <sub>d</sub> of 2.7 nM. (Sar1)-Angiotensin II can stimulate protein synthesis and cell growth in embryonic chick myocytes <sup>[1][2][3]</sup> .
In Vitro	(Sar1)-Angiotensin II (1 μM/day; 9 d) increases the total protein content in embryonic chick myocytes by 18.5, 26.2, and 22.2% at 5, 7, and 9 days, respectively <sup>[2]</sup> . (Sar1)-Angiotensin II binds to brain membrane-rich particles in cynomolgus monkey brain, with a K <sub>d</sub> of 2.7 nM <sup>[3]</sup> . MCE has not independently confirmed the accuracy of these methods. They are for reference only.

### REFERENCES

- [1]. Matsoukas JM, et, al. Differences in backbone structure between angiotensin II agonists and type I antagonists. J Med Chem. 1995 Nov 10;38(23):4660-9.
- [2]. Aceto JF, et, al. [Sar1]angiotensin II receptor-mediated stimulation of protein synthesis in chick heart cells. Am J Physiol. 1990 Mar;258(3 Pt 2):H806-13.
- [3]. Millan MA, et, al. Distribution of angiotensin II receptors in the brain of nonhuman primates. Peptides. Mar-Apr 1990;11(2):243-53.

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

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