Product Data Sheet

Product Name: Angiotensin II (3-8), human
Cat. No.: GC35352

Chemical Properties

Cas. No.	12676-15-2		
Formula	$C_{40}H_{54}N_8O_8$	M.Wt	774.91
Solubility	Soluble in DMSO	Storage	Store at -20°C
General tips	For obtaining a higher solubility , please warm the tube at 37 ℃ and shake it in the ultrasonic bath for a while.Stock solution can be stored below -20℃ for several months.		
Shipping Condition	Evaluation sample solution : ship with blue ice All other available size: ship with RT , or blue ice upon request.		
Structure	Angiotensin II (3-8), human		

Background

Angiotensin II (3-8) is an endogenous C-terminal fragment of the peptide vasoconstrictor angiotensin II .[1] It selectively binds to the angiotensin 2 (AT_2) over AT_1 receptors (IC_{50}s = 48.6 and >1,000 nM, respectively, in HEK293 cells expressing rat receptors). It also binds to AT_4 receptors in bovine aortic endothelial cell membranes (IC_{50} = 1.6 nM).[2] Angiotensin II (3-8) induces a positive chronotropic effect in isolated rat right atria (EC_{50} = 4.68 µM) and increases mean arterial pressure (MAP) *in vivo* in rats when administrated intracerebroventricularly at a dose of 1 pmol.[3,4] It also increases latency to withdrawal in a tail-flick test in rats when administered by microinjection into the ventrolateral periaqueductal gray (vlPAG).[5]

1.Bosnyak, S., Jones, E.S., Christopoulos, A., et al.Relative affinity of angiotensin peptides and novel ligands at AT1 and AT2 receptorsClin. Sci. (Lond.)121(7)297-303(2011) 2.Bernier, S.G., Bellemare, J.M., Escher, E., et al.Characterization of AT4 receptor from bovine aortic endothelium with photosensitive analogues of angiotensin IVBiochemistry37(12)4280-4287(1998) 3.Li, Q., Zhang, J., Pfaffendorf, M., et al.Direct positive chronotropic effects of angiotensin II and angiotensin III in pithed rats and in rat isolated atriaBr. J. Pharmacol.118(7)1653-1658(1996) 4.Wright, J.W., Jensen, L.L.,

Tel: (909) 407-4943 Fax: (626) 353-8530 E-mail: tech@glpbio.com
Address: 10292 Central Ave. #205, Montclair, CA, USA

Product Data Sheet

Roberts, K.A., et al.Structure-function analyses of brain angiotensin control of pressor action in ratsAm. J. Physiol.257(6 Pt. 2)R1551-R1557(1989) 5.Guethe, L.M., Pelegrini-da-Silva, A., Borelli, K.G., et al.Angiotensin (5-8) modulates nociception at the rat periaqueductal gray via the NO-sGC pathway and an endogenous opioidNeuroscience231315-327(2013)

Tel: (909) 407-4943 Fax: (626) 353-8530 E-mail: tech@glpbio.com
Address: 10292 Central Ave. #205, Montclair, CA, USA