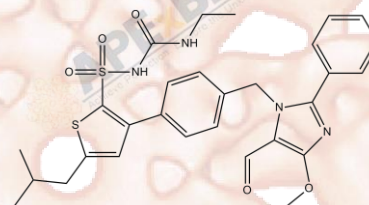


Product Data Sheet

AVE 0991

Cat. No.:	B1007
CAS No.:	304462-19-9
Formula:	C ₂₉ H ₃₂ N ₄ O ₅ S ₂
M.Wt:	580.72
Synonyms:	
Target:	GPCR/G protein
Pathway:	Angiotensin Receptor
Storage:	Store at -20°C



Solvent & Solubility

≥29.04 mg/mL in DMSO

In Vitro

Preparing Stock Solutions	Solvent	Mass		
		1mg	5mg	10mg
	Concentration			
	1 mM	1.7220 mL	8.6100 mL	17.2200 mL
	5 mM	0.3444 mL	1.7220 mL	3.4440 mL
	10 mM	0.1722 mL	0.8610 mL	1.7220 mL

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

Biological Activity

Shortsummary

Agonist of angiotensin-(1-7) receptor

IC₅₀ & Target

21 nM (angiotensin-(1-7) receptor)

In Vitro

Cell Viability Assay

Cell Line:	Mas-transfected COS cells
Preparation method:	The solubility of this compound in DMSO is > 29mg/mL. General tips for obtaining a higher concentration: Please warm the tube at 37 °C for 10 minutes and/or shake it in the ultrasonic bath for a while. Stock solution can be stored below - 20 °C for several months.
Reacting conditions:	10-6 M

	Applications:	AVE 0991 competed the specific binding of 125I-Ang-(1-7) to Mas-transfected COS cells with an IC50 value of 4.75×10^{-8} M. In addition, at the dose of 10^{-6} M, AVE 0991 completely abolished the specific binding of rhodamine-labeled Ang-(1-7) to Mas-transfected CHO cells.
In Vivo	Animal experiment	
	Animal models:	Water-loaded WT mice (C57BL/6)
	Dosage form:	0.58 nmol/g; i.p.
	Applications:	In water-loaded WT mice (C57BL/6), AVE 0991 significantly decreased water diuresis, which was associated with an increase in urine osmolality.
	Other notes:	Please test the solubility of all compounds indoor, and the actual solubility may slightly differ with the theoretical value. This is caused by an experimental system error and it is normal.

Product Citations

1. Burghi V, Echeverría EB, et al. "Participation of Gα(i)-Adenylate Cyclase and ERK1/2 in Mas Receptor Signaling Pathways." Front Pharmacol. 2019 Feb 22;10:146.PMID:30853914

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References

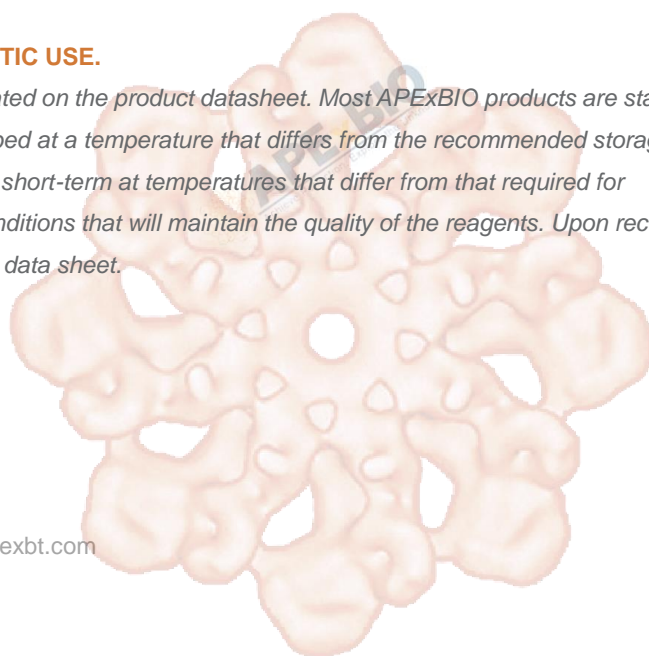
[1]. Sergio Veloso Brant Pinheiro, Ana Cristina Simoes e Silva, Walkyria Oliveira Sampaio, Renata Dutra de Paula, Elizabeth Pereira Mendes, Elizabete Dias Bontempo, Joao Bosco Pesquero, Thomas Walther, Natalia Alenina, Michael Bader, Markus Bleich, Robson Augusto Souza Santos. Nonpeptide AVE 0991 Is an Angiotensin-(1-7) Receptor Mas Agonist in the Mouse Kidney. Hypertension. 2004, 44: 490-496.

Caution

FOR RESEARCH PURPOSES ONLY.

NOT FOR HUMAN, VETERINARY DIAGNOSTIC OR THERAPEUTIC USE.

Specific storage and handling information for each product is indicated on the product datasheet. Most APEX BIO products are stable under the recommended conditions. Products are sometimes shipped at a temperature that differs from the recommended storage temperature. Short-term storage of many products are stable in the short-term at temperatures that differ from that required for long-term storage. We ensure that the product is shipped under conditions that will maintain the quality of the reagents. Upon receipt of the product, follow the storage recommendations on the product data sheet.



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