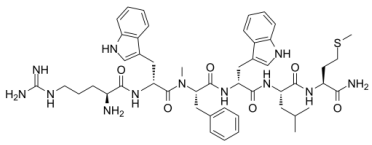
Data Sheet

Product Name:	Antagonist G
Cat. No.:	CS-0028917
CAS No.:	115150-59-9
Molecular Formula:	$C_{49}H_{66}N_{12}O_6S$
Molecular Weight:	951.19
Target:	Apoptosis; Vasopressin Receptor
Pathway:	Apoptosis; GPCR/G Protein
Solubility:	H2O : 50 mg/mL (52.57 mM; Need ultrasonic)



BIOLOGICAL ACTIVITY:

Antagonist G is a potent **vasopressin** antagonist. Antagonist G is also a weak antagonist of GRP and Bradykinin. Antagonist G induces AP-1 transcription and sensitizes cells to chemotherapy[1][2]. **In Vitro:** Antagonist G (0-100 μM) induces apoptosis is redox-sensitive and caspase-dependently in SCLC cells[2].

Antagonist G activates JNK1 in SCLC cells[2].

Antagonist G is not intrinsically a free radical oxygen donor but stimulates free radical generation specifically within SCLC cells (6.2-fold) and increases the activity of the redox-sensitive transcription factor AP-1 by 61%[2].

References:

[1]. P J Woll, et al. A neuropeptide antagonist that inhibits the growth of small cell lung cancer in vitro. Cancer Res. 1990 Jul 1;50(13):3968-73.

[2]. A C MacKinnon, et al. [Arg6, D-Trp7,9, NmePhe8]-substance P (6–11) (antagonist G) inducesP-1 transcription and sensitizes cells to chemotherapy. Br J Cancer. 2000 Oct; 83(7): 941–948.

CAIndexNames:

L-Methioninamide, L-arginyl-D-tryptophyl-N-methyl-L-phenylalanyl-D-tryptophyl-L-leucyl-

SMILES:

CSCC[C@@H](C(N)=O)NC([C@H](CC(C)C)NC([C@@H](CC1=CNC2=C1C=CC=C2)NC([C@H](CC3=CC=CC=C3)N(C([C@@H](CC4=CNC5=C4C=CC=C5)NC([C@H](CCCNC(N)=N)N)=O)=O)C)=O)=O)=O

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

Tel: 610-426-3128 Fax: 888-484-5008 E-mail: sales@ChemScene.com
Address: 1 Deer Park Dr, Suite Q, Monmouth Junction, NJ 08852, USA