Antagonist G

Cat. No.: HY-P1185

CAS No.: 115150-59-9

Molecular Formula: $C_{49}H_{66}N_{12}O_6S$

Molecular Weight: 951.19

Sequence Shortening: RW-{Me-Phe}-WLM-NH2

Target: Vasopressin Receptor; Apoptosis

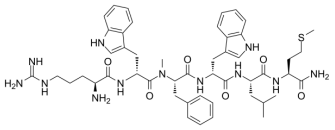
Pathway: GPCR/G Protein; Apoptosis

Storage: Sealed storage, away from moisture and light

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)



SOLVENT & SOLUBILITY

In Vitro

H_2O : 50 mg/mL (52.57 mM; Need ultrasonic)

Preparing Stock Solutions	Solvent / Mass / Concentration	1 mg	5 mg	10 mg
	1 mM	1.0513 mL	5.2566 mL	10.5131 mL
	5 mM	0.2103 mL	1.0513 mL	2.1026 mL
	10 mM	0.1051 mL	0.5257 mL	1.0513 mL

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

BIOLOGICAL ACTIVITY

Description

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].

MCE has not independently confirmed the accuracy of these methods. They are for reference only.

Cell Viability Assay[2]

Cell Line:	SCLC cell lines NCI-H69, NCI-H510 and CHO-K1 cells.
Concentration:	0-100 μM.

Incubation Time:	24 h.
Result:	Inhibited cell growth.

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.

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