Product Data Sheet

Product Name: Sardomozide (CGP 48664)
Cat. No.: GC34142

Chemical Properties

Cas. No.	149400-88-4		
SMILES	N=C(C1=CC=CC2=C1CC/C2=N\NC(N)=N)N		
Formula	$C_{11}H_{14}N_6$	M.Wt	230.27
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	Sardomozide (CGP 48664)		

Protocol

Cell experiment:

The parent CHO cell line is chronically exposed to increasing levels of Sardomozide for at least eight passages beginning at 0.1 μM. Cell lines are serially exposed to increasing concentrations until a panel of sublines is obtained resistant to 1 (CHO/1). 3 (CHO/3), 10 (CHO/10), 30 (CHO/30), and 100 (CHO/100) μM Sardomozide for comparative studies[2].

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References:

[1]. Regenass U, et al. CGP 48664, a new S-adenosylmethionine decarboxylase inhibitor with broad spectrum antiproliferative and antitumor activity. Cancer Res. 1994 Jun 15;54(12):3210-7.
[2]. Kramer DL, et al. Lysosomal sequestration of polyamine analogues in Chinese hamster ovary cells resistant to the S-adenosylmethionine decarboxylase inhibitor, CGP-48664. Cancer Res. 1998 Sep 1;58(17):3883-90.

Background

Sardomozide is an S-adenosylmethionine decarboxylase (SAMDC) inhibitor with an IC50 of 5 nM.

Sardomozide is a S-adenosylmethionine decarboxylase (SAMDC) inhibitor with an IC50 of 5 nM in cell assay. Following treatment for 48 h with 3 μM Sardomozide, intracellular SAMDC activity is reduced to 10% of control[1]. When the CHO/664 cells are grown in the presence of Sardomozide and during treatment with DENSPM, vacuole formation is not observed, and these cells are growth-inhibited and contain levels of DENSPM similar to the parental CHO cells[2].

[1]. Regenass U, et al. CGP 48664, a new S-adenosylmethionine decarboxylase inhibitor with broad spectrum antiproliferative and antitumor activity. Cancer Res. 1994 Jun 15;54(12):3210-7. [2]. Kramer DL, et al. Lysosomal sequestration of polyamine analogues in Chinese hamster ovary cells resistant to the S-adenosylmethionine decarboxylase inhibitor, CGP-48664. Cancer Res. 1998 Sep 1;58(17):3883-90.

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