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Zuschläge

- Mindermengenzuschlag
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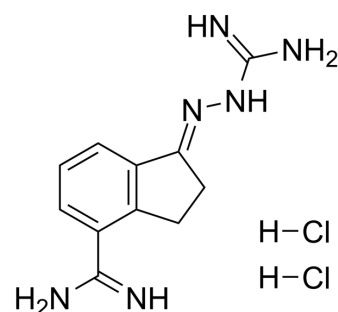
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Sardomozide dihydrochloride

Cat. No.: HY-13746B
 CAS No.: 138794-73-7
 Molecular Formula: $C_{11}H_{16}Cl_2N_6$
 Molecular Weight: 303.19
 Target: Others
 Pathway: Others
 Storage: -20°C, sealed storage, away from moisture
 * In solvent: -80°C, 6 months; -20°C, 1 month (sealed storage, away from moisture)



SOLVENT & SOLUBILITY

In Vitro

DMSO : 10 mg/mL (32.98 mM; ultrasonic and warming and heat to 60°C)
 H₂O : 3.85 mg/mL (12.70 mM; ultrasonic and warming and heat to 60°C)

	Solvent Concentration	Mass	1 mg	5 mg	10 mg
Preparing Stock Solutions	1 mM		3.2983 mL	16.4913 mL	32.9826 mL
	5 mM		0.6597 mL	3.2983 mL	6.5965 mL
	10 mM		0.3298 mL	1.6491 mL	3.2983 mL

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

In Vivo

1. Add each solvent one by one: 10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline
 Solubility: ≥ 1 mg/mL (3.30 mM); Clear solution
2. Add each solvent one by one: 10% DMSO >> 90% (20% SBE- β -CD in saline)
 Solubility: 1 mg/mL (3.30 mM); Suspended solution; Need ultrasonic
3. Add each solvent one by one: 10% DMSO >> 90% corn oil
 Solubility: ≥ 1 mg/mL (3.30 mM); Clear solution

BIOLOGICAL ACTIVITY

Description

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

IC₅₀ & Target

IC₅₀: 5 nM (SAMDC)^[1]

In Vitro

Sardomozide is a S-adenosylmethionine decarboxylase (SAMDC) inhibitor with an IC₅₀ of 5 nM in cell assay. Following treatment for 48 h with 3 μ M 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].

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

PROTOCOL

Cell Assay^[2]

The parent CHO cell line is chronically exposed to increasing levels of Sardomozide for at least eight passages beginning at 0.1 μ M. 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) μ M Sardomozide for comparative studies^[2].

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

CUSTOMER VALIDATION

- Sci Adv. 2023 May 19;9(20):eade0718.

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REFERENCES

[1]. Regensass 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.

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

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