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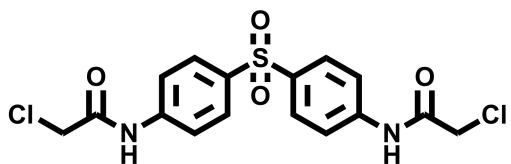
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Protein Arginine Methyltransferase 1 (PRMT1) Inhibitor – PRMT1-2e

Chemical Name: N,N'-(sulfonylbis(4,1-phenylene))bis(2-chloroacetamide)



Molecular Weight:	401.26
Formula:	C ₁₆ H ₁₄ Cl ₂ N ₂ O ₄ S
Purity:	≥98%
CAS#:	17328-16-4
Solubility:	DMSO up to 50 mM
Storage	Powder: 4 °C 1 year DMSO: 4 °C 3 months -20 °C 1 year

Biological Activity:

PRMT1-2e is a potent, specific and cell permeable inhibitor of protein arginine methyltransferase 1 (PRMT1) with an IC₅₀ ~1.5 μM. It has no activity against CARM1 and Set7/9 methyltransferases. It inhibits growth of MCF7a breast cancer cells (IC₅₀ ~1.97 μM) and LNCaP prostate cancer cells (IC₅₀ ~4.49 μM). It can attenuate androgen-induced gene expression in LNCaP cells.

How to Use:

In vitro: PRMT1-2e was used at 10 μM in vitro.

In vivo: n/a

Reference:

1. Bissinger EM, et al. Acyl derivatives of p-aminosulfonamides and dapsone as new inhibitors of the arginine methyltransferase hPRMT1. (2011) *Bioorg Med Chem.* 19(12):3717-31.

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