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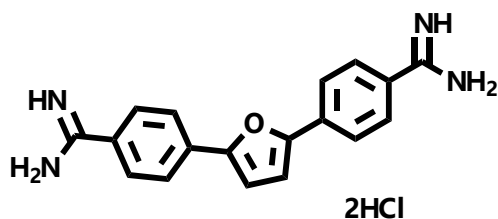
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## PRMT1 Inhibitor - Furamide

**Chemical Name:** 4,4'-(furan-2,5-diyl)dibenzimidamide dihydrochloride



Molecular Weight:	377.27
Formula:	C <sub>18</sub> H <sub>16</sub> N <sub>4</sub> O.2HCl
Purity:	≥98%
CAS#:	55368-40-6
Solubility:	DMSO and water up to 50 mM
Storage	Powder: 4 °C 1 year DMSO: 4 °C 3 months -20 °C 1 year

### Biological Activity:

Furamide is a potent, selective and cell permeable Protein arginine methyltransferase-1 (PRMT1) inhibitor with IC<sub>50</sub> of 9.4 μM. It has >10-fold selectivity PRMT5, PRMT6 and CARM1 (IC<sub>50</sub> are 166, 283 and >400 μM respectively). It targets the enzyme active site and is primarily competitive with the substrate and noncompetitive toward the cofactor. Furamide effectively inhibits intracellular PRMT1 activity and blocks cell proliferation in leukemia cell lines with different genetic lesions.

### How to Use:

**In vitro:** Furamide was used at 10-30 μM final concentration in various in vitro assays.

**In vivo:** n/a

### Reference:

1. Yan L, et al. Diamidine compounds for selective inhibition of protein arginine methyltransferase 1. (2014) J Med Chem. 57(6):2611-22.

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