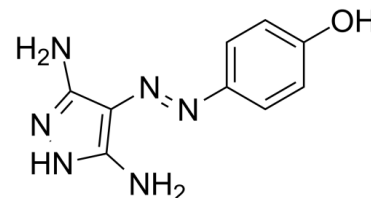


## Data Sheet

<b>Product Name:</b>	CAN508
<b>Cat. No.:</b>	CS-0018885
<b>CAS No.:</b>	140651-18-9
<b>Molecular Formula:</b>	C <sub>9</sub> H <sub>10</sub> N <sub>6</sub> O
<b>Molecular Weight:</b>	218.22
<b>Target:</b>	CDK
<b>Pathway:</b>	Cell Cycle/DNA Damage
<b>Solubility:</b>	DMSO : 250 mg/mL (1145.63 mM; Need ultrasonic)



### BIOLOGICAL ACTIVITY:

CAN508 is a potent, ATP-competitive **CDK9/cyclin T1** inhibitor with an **IC<sub>50</sub>** of 0.35 μM. CAN508 exhibits a 38-fold selectivity for CDK9/cyclin T over other CDK/cyclin complexes. Antitumor activity<sup>[1][2]</sup>. **In Vitro:** CAN508 reduces the frequency of S-phase cells of the cancer cell line HT-29 in antiproliferation assays<sup>[1]</sup>.

CAN508 (20-40 μM; 72 hours) significantly reduces cell proliferation in a dose dependent manner in all three esophageal adenocarcinoma cell lines (SKGT4, OE33 and FLO-1 cells) with IC<sub>50</sub>s ranging from 34.99 to 91.09 μM<sup>[2]</sup>.

CAN508 (40 μM; 72 hours) increases apoptosis in all three esophageal adenocarcinoma cells<sup>[2]</sup>. **In Vivo:** CAN508 (60 mg/kg; i.p.; daily for 10 days) has antitumor effects in esophageal adenocarcinoma xenografts<sup>[1]</sup>.

### References:

[1]. Krystof V, et al. 4-aryloxy-3,5-diamino-1H-pyrazole CDK inhibitors: SAR study, crystal structure in complex with CDK2, selectivity, and cellular effects. J Med Chem. 2006;49(22):6500-6509.

[2]. Tong Z, et al. Antitumor effects of cyclin dependent kinase 9 inhibition in esophageal adenocarcinoma. Oncotarget. 2017;8(17):28696-28710.

### CAIndexNames:

Phenol, 4-[2-(3,5-diamino-1H-pyrazol-4-yl)diazenyl]-

### SMILES:

OC1=CC=C(/N=N/C2=C(N)NN=C2N)C=C1

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

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