

## DDRI-18

## Chemical Properties

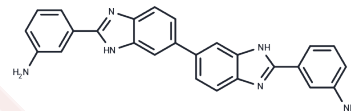
CAS No. : 4402-18-0

Formula: C<sub>26</sub>H<sub>20</sub>N<sub>6</sub>

Molecular Weight: 416.48

Storage: Powder: -20°C for 3 years | In solvent: -80°C for 1 year

Actual storage temperature shall be subject to the COA.



## Biological Description

Description	DDRI-18 is a novel small molecule inhibitor that regulates the DNA damage response with sensitizing and anticancer activities, inhibits non-homologous end-joining (NHEJ) DNA repair and enhances the cytotoxicity of anticancer DNA damage compounds.
Targets(IC50)	DNA/RNA Synthesis

## Solubility Information

Solubility	DMSO: 20 mg/mL (48.02 mM), Sonication is recommended. ( < 1 mg/ml refers to the product slightly soluble or insoluble)
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## Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.4011 mL	12.0054 mL	24.0108 mL
5 mM	0.4802 mL	2.4011 mL	4.8022 mL
10 mM	0.2401 mL	1.2005 mL	2.4011 mL
50 mM	0.048 mL	0.2401 mL	0.4802 mL

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. Please use it as soon as possible.

Note: The dilution table applies only to solid products. For liquid products, please calculate the stock solution based on the stated concentration and/or density.

## Reference

D W Jun, et al. Characterization of DDRI-18 (3,3'-(1H,3'H-5,5'-bibenzo[d]imidazole-2,2'-diyl)dianiline), a novel small molecule inhibitor modulating the DNA damage response. Br J Pharmacol. 2012 Sep;167(1):141-50.

**Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins**

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Tel:781-999-4286 E\_mail:info@targetmol.com Address:34 Washington Street,Wellesley Hills,MA 02481