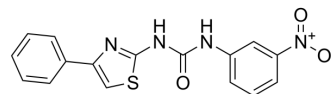


BAZ1A-IN-1

Cat. No.:	HY-141890		
CAS No.:	941521-45-5		
Molecular Formula:	C ₁₆ H ₁₂ N ₄ O ₃ S		
Molecular Weight:	340.36		
Target:	Epigenetic Reader Domain		
Pathway:	Epigenetics		
Storage:	Powder	-20°C	3 years
		4°C	2 years
	In solvent	-80°C	6 months
		-20°C	1 month



SOLVENT & SOLUBILITY

In Vitro

DMSO : 25 mg/mL (73.45 mM; ultrasonic and warming and heat to 60°C)

Concentration	Mass		
	1 mg	5 mg	10 mg
1 mM	2.9381 mL	14.6903 mL	29.3807 mL
5 mM	0.5876 mL	2.9381 mL	5.8761 mL
10 mM	0.2938 mL	1.4690 mL	2.9381 mL

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

BIOLOGICAL ACTIVITY

Description

BAZ1A-IN-1 is a potent inhibitor of BAZ1A (bromodomain-containing protein). BAZ1A-IN-1 shows a K_D value of 0.52 μ M against BAZ1A bromodomain. BAZ1A-IN-1 shows good anti-viability activity against cancer cell lines expressing a high level of BAZ1A, but weak or no activity against cancer cells with a low expression level of BAZ1A^[1].

IC₅₀ & Target

BAZ1A^[1]

In Vitro

BAZ1A-IN-1 (Cpd-2) (0.015-100 μ M; 96 hours) exhibits good anti-viability activity against all the four cancer cell lines that have a high expression level of BAZ1A, with IC₅₀ values of 5.08 μ M, 4.29 μ M, 10.65 μ M, and 7.70 μ M for THP-1, ZR-75-30, BT474, and H1975 cells, respectively^[1].

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

Cell Viability Assay^[1]

Cell Line:	THP-10 (leukemia), ZR-75-30 (breast cancer), BT474 (breast cancer), H1975 (lung cancer) cells
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Concentration:	0.015-100 μ M
Incubation Time:	96 hours
Result:	Significantly inhibited the viability activity in four cancer cell lines which all expressed high levels of BAZ1A.

REFERENCES

[1]. Yang Z, et al. Discovery of BAZ1A bromodomain inhibitors with the aid of virtual screening and activity evaluation. Bioorg Med Chem Lett. 2021;33:127745.

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

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