BTZO-1

Cat. No.:	HY-110084		
CAS No.:	99420-15-2		
Molecular Formula:	C ₁₃ H ₈ N ₂ OS		
Molecular Weight:	240.28		
Target:	Apoptosis; Macrophage migration inhibitory factor (MIF)		
Pathway:	Apoptosis; Immunology/Inflammation		
Storage:	Powder	-20°C	3 years
		4°C	2 years
	In solvent	-80°C	2 years
		-20°C	1 year

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SOLVENT & SOLUBILITY

		Solvent Mass Concentration	1 mg	5 mg	10 mg
Preparing Stock Solutions	Preparing Stock Solutions	1 mM	4.1618 mL	20.8091 mL	41.6181 mL
		5 mM	0.8324 mL	4.1618 mL	8.3236 mL
	10 mM	0.4162 mL	2.0809 mL	4.1618 mL	

DIOLOGICALACITY				
Description	BTZO-1 binds to Macrophage migration inhibitory factor (MIF) with a K _d value of 68.6 nM, and its binding requires the N- terminal Pro1. BTZO-1 can activate antioxidant response element (ARE)-mediated gene expression and suppress oxidative stress-induced cardiomyocyte apoptosis in vitro ^[1] .			
IC ₅₀ & Target	Kd:68.6 nM (Macrophage migration inhibitory factor) ^[1]			
In Vitro	BTZO-1 (0-330 nM; 24 hours) effective concentration (ME BTZO-1 (0.37 μM; 21 hours) MCE has not independently Cell Viability Assay ^[1]) dose-dependently suppressed serum deprivation-induced cardiomyocyte death; the minimum C1.5), the concentration of a sample necessary to give a 50% increase in cell viability, is 16 nM ^[1] . upregulates mRNA protein levels of GST Ya and HO-1 in cardiomyocytes ^[1] . confirmed the accuracy of these methods. They are for reference only.		
	Cell Line:	Primary Neonatal Rat Cardiomyocytes		
	Concentration:	0-330 nM		

Product Data Sheet

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Incubation Time:	24 hours
Result:	Suppressed serum deprivation or DOX-induced cell death.

REFERENCES

[1]. Kimura H, et al. BTZO-1, a cardioprotective agent, reveals that macrophage migration inhibitory factor regulates ARE-mediated gene expression. Chem Biol. 2010 Dec 22;17(12):1282-94.

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

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