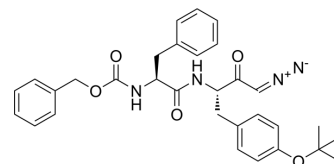


Z-Phe-Tyr(tBu)-diazomethylketone

Cat. No.:	HY-138208		
CAS No.:	114014-15-2		
Molecular Formula:	C ₃₁ H ₃₄ N ₄ O ₅		
Molecular Weight:	542.63		
Target:	Cathepsin; SARS-CoV		
Pathway:	Metabolic Enzyme/Protease; Anti-infection		
Storage:	Powder	-20°C	3 years
	In solvent	-80°C	6 months
		-20°C	1 month



SOLVENT & SOLUBILITY

In Vitro

DMSO : ≥ 250 mg/mL (460.72 mM)
 * "≥" means soluble, but saturation unknown.

Solvent	Mass	Concentration		
		1 mg	5 mg	10 mg
Preparing Stock Solutions	1 mM	1.8429 mL	9.2144 mL	18.4288 mL
	5 mM	0.3686 mL	1.8429 mL	3.6858 mL
	10 mM	0.1843 mL	0.9214 mL	1.8429 mL

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

BIOLOGICAL ACTIVITY

Description	Z-Phe-Tyr(tBu)-diazomethylketone is a potent cathepsin L inhibitor. Z-Phe-Tyr(tBu)-diazomethylketone mediates reovirus disassembly. Z-Phe-Tyr(tBu)-diazomethylketone decreases viral detection ^{[1][2]} .
IC₅₀ & Target	cathepsin L
In Vitro	Z-Phe-Tyr(tBu)-diazomethylketone (3.3, 10 μM; 3 h) results in reovirus inefficient proteolytic disassembly of viral outer-capsid proteins and decreases viral yields in L929 cells ^[1] . Z-Phe-Tyr(tBu)-diazomethylketone decreases viral detection to about 10% of vehicle-treated controls in SARS-CoV-2 infection of cardiomyocytes (CMs) ^[2] . MCE has not independently confirmed the accuracy of these methods. They are for reference only.

REFERENCES

[1]. Ebert DH, et al. Cathepsin L and cathepsin B mediate reovirus disassembly in murine fibroblast cells. J Biol Chem. 2002 Jul 5;277(27):24609-17.

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

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