NFATc1-IN-1

Cat. No.:	HY-147369		
CAS No.:	1912422-56	-0	
Molecular Formula:	C ₁₃ H ₈ F ₂ INO ₂		
Molecular Weight:	375.11		
Target:	Nuclear Factor of activated T Cells (NFAT)		
Pathway:	Immunology/Inflammation		
Storage:	Powder	-20°C	3 years
		4°C	2 years
	In solvent	-80°C	6 months
		-20°C	1 month

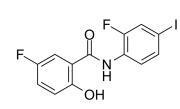
SOLVENT & SOLUBILITY

	Solvent Mass Concentration	1 mg	5 mg	10 mg
Preparing Stock Solutions	1 mM	2.6659 mL	13.3294 mL	26.6588 m
	5 mM	0.5332 mL	2.6659 mL	5.3318 mL
	10 mM	0.2666 mL	1.3329 mL	2.6659 mL

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Description		A04) is a potent inhibitor of RANKL-induced osteoclast formation, with an IC ₅₀ of 1.57 μM. NFATc1- stogenic effects through reducing the RANKL-induced nuclear translocation of NFATc1. NFATc1-IN-1 stic diseases research ^[1] .
In Vitro	NFATc1-IN-1 (compound A04) (0-2.5 μM, 4 days) exhibits potent inhibitory activities on osteoclast formation and function, which eventually translates into decreased bone resorption ^[1] . NFATc1-IN-1 (1.5-2.5 μM, 24 h) blocks NFATc1 nuclear translocation and decreases the level of NFATc1 ^[1] . MCE has not independently confirmed the accuracy of these methods. They are for reference only. Cell Viability Assay ^[1]	
	Cell Line:	Osteoclast precursor RAW 264.7 cells
	Concentration:	0, 0.5, 1.0, 1.5, 2.0 and 2.5 μM
	Incubation Time:	4 days

Product Data Sheet





Result:	Markedly reduced the number and size of red TRAP-positive multinucleated osteoclasts concentrations of 1.5, 2.0, and 2.5 μ M. Significantly inhibited formation of osteoclasts in dose-dependent manner (at 1.5, 2.0 and 2.5 μ M), while showing no cytotoxic effects towards osteoclast precursor cells at concentrations of as high as 2.5 μ M.
Immunofluorescence ^[1]	
Cell Line:	RAW264.7 cells
Concentration:	1.5 or 2.5 μM
Incubation Time:	24 h
Result:	Blocked NFATc1 nuclear translocation and decreased the level of NFATc1.

REFERENCES

[1]. Chen CL, et al. Design, synthesis and SARs of novel salicylanilides as potent inhibitors of RANKL-induced osteoclastogenesis and bone resorption. Eur J Med Chem. 2016 Jul 19;117:70-84.

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

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