Butyzamide

Cat. No.:	HY-148748	
CAS No.:	1110767-45-7	
Molecular Formula:	$C_{29}H_{32}Cl_{2}N_{2}O_{5}S$	× a~
Molecular Weight:	591.55	CI CI
Target:	JAK; STAT; p38 MAPK	
Pathway:	Epigenetics; JAK/STAT Signaling; Protein Tyrosine Kinase/RTK; Stem Cell/Wnt; MAPK/ERK Pathway	о о сі Лон
Storage:	4°C, sealed storage, away from moisture and light * In solvent : -80°C, 6 months; -20°C, 1 month (sealed storage, away from moisture and light)	

SOLVENT & SOLUBILITY

Pre Sto							
	Preparing Stock Solutions	Solvent Mass Concentration	1 mg	5 mg	10 mg		
		1 mM	1.6905 mL	8.4524 mL	16.9047 mL		
		5 mM	0.3381 mL	1.6905 mL	3.3809 mL		
		10 mM	0.1690 mL	0.8452 mL	1.6905 mL		

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

BIOLOGICAL ACTIVITY							
Description	Butyzamide is an orally active activator of Mpl, a thrombopoietin (TPO) receptor. Butyzamide increases the phosphorylation level of JAK2, STAT3, STAT5 and MAPK. Butyzamide increases the level of human platelets in mouse xenotransplantation assay ^[1] .						
IC ₅₀ & Target	JAK2	STAT3	STAT5				
In Vitro	Butyzamide (3 μM; 15 min) induces the phosphorylation of JAK2, STAT3, STAT5 and MAPK in Ba/F3-hMpl cells ^[1] . Butyzamide (3 μM; 48 h) induces colony-forming unit-megakaryocyte and polyploid meggakaryocytes from human CD34 ⁺ hematopoietic progenitor cellls ^[1] . MCE has not independently confirmed the accuracy of these methods. They are for reference only.						
In Vivo	Butyzamide (10 mg/kg, 50 mg/kg; p.o.; once daily for 20 days) increases human platelets in NOG mice transplanted with human fetal liver-derived CD34 ⁺ cells ^[1] . MCE has not independently confirmed the accuracy of these methods. They are for reference only.						

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REFERENCES

[1]. Nogami W, et al. The effect of a novel, small non-peptidyl molecule butyzamide on human thrombopoietin receptor and megakaryopoiesis. Haematologica. 2008 Oct;93(10):1495-504.

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

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