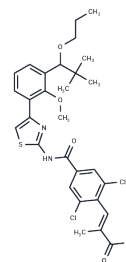


Butyzamide

Chemical Properties

CAS No. :	1110767-45-7
Formula:	C ₂₉ H ₃₂ Cl ₂ N ₂ O ₅ S
Molecular Weight:	591.55
Storage:	Powder: -20°C for 3 years In solvent: -80°C for 1 year Actual storage temperature shall be subject to the COA.



Biological Description

Description	Butyzamide is an effective and oral Mpl activator. It is a novel non-peptide-based molecule with antagonistic effects on thrombopoietin (TPO) receptors, which promotes proliferation of human Mpl (hMpl) expression and mouse pro B cell line Ba/F3. The phosphorylation of JAK2, STAT3, STAT5 and MAPK is induced. Butyzamide has been shown to help increase platelet levels in mouse xenotransplantation trials.
Targets(IC50)	STAT,JAK,p38 MAPK,Thrombopoietin Receptor
In vitro	Butyzamide (3 μM; 15 minutes) induces phosphorylation of JAK2, STAT3, STAT5, and MAPK in Ba/F3-hMpl cells.[1] Butyzamide (3 μM; 48 hours) induces colony-forming unit-megakaryocyte (CFU-MK) and polyploid megakaryocyte formation in human CD34+ hematopoietic progenitor cells.[1]
In vivo	Butyzamide (10 mg/kg, 50 mg/kg; oral administration; once daily for 20 days) enhances human platelet levels in NOG mice transplanted with human fetal liver-derived CD34+ cells.[1]

Solubility Information

Solubility	DMSO: 165 mg/mL (278.93 mM),Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
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Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	1.6905 mL	8.4524 mL	16.9047 mL
5 mM	0.3381 mL	1.6905 mL	3.3809 mL
10 mM	0.169 mL	0.8452 mL	1.6905 mL
50 mM	0.0338 mL	0.169 mL	0.3381 mL

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. Please use it as soon as possible.

Note: The dilution table applies only to solid products. For liquid products, please calculate the stock solution based on the stated concentration and/or density.

Reference

Nogami W, et al. The effect of a novel, small non-peptidyl molecule butyzamide on human thrombopoietin receptor and megakaryopoiesis. *Haematologica*. 2008;93(10):1495-1504.

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