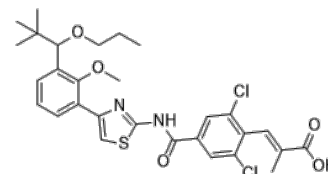


Product Name : Butyzamide
Cat. No. : PC-25860
CAS No. : 1110767-45-7
Molecular Formula : C₂₉H₃₂Cl₂N₂O₅S
Molecular Weight : 591.54
Target : Thrombopoietin Receptor (CD110)
Solubility : 10 mM in DMSO



Biological Activity

Butyzamide is a potent, specific non-peptidyl activator /agonist of Thrombopoietin (TPO) receptor Mpl, promotes the proliferation of Ba/F3-hMpl cells with EC₅₀ of 10 nM.

Butyzamide does not promotes the proliferation of parental Ba/F3 cells that does not express human Mpl.

Butyzamide shows species specificity for human but not murine Mpl, Butyzamide does not stimulate other cytokine receptors of EPO, G-CSF, GM-CSF and IL-3.

Butyzamide induces phosphorylated JAK2, STAT3, STAT5 and MAPK in Ba/F3-hMpl cells.

Butyzamide induced colony-forming unit-megakaryocyte and polyploid megakaryocytes from human CD34+ hematopoietic progenitor cells.

Butyzamide (3 uM) increased polyploid megakaryocytes in a similar manner to 1 nM rhTPO.

Butyzamide (10 or 50 mg/kg once daily for 20 days) increased human platelets in FL-CD34+-transplanted NOG mice.

References

Nogami W, et al. Haematologica. 2008 Oct;93(10):1495-504.

Caution: Product has not been fully validated for medical applications. Lab Use Only!

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