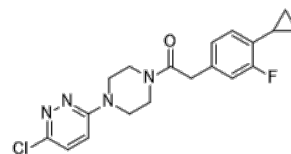


Product Name : BBP-671
Cat. No. : PC-28329
CAS No. : 2361124-03-8
Molecular Formula : C₁₉H₂₀ClFN₄O
Molecular Weight : 374.84
Target : Other Targets
Solubility : 10 mM in DMSO



Biological Activity

Claziprotamide (BBP-671) is a potent, brain penetrant small molecule activator of **Pantothenate kinase (PanK)** with K_d of 97 pM and IC₅₀ of 1.59 nM for **PanK3**, binds to and activates all PANK isoforms.

BBP-671 counteracts feedback inhibition of the enzyme to increase the intracellular concentration of CoA.

BBP-671 normalizes the cellular concentrations of liver CoASH and acetyl-CoA in propionic acidemia (PA) mice.

BBP-671 also reduces hepatic propionyl-CoA leading to an improved intracellular C3:C2-CoA ratio.

BBP-671 significantly reduced plasma C3:C2-carnitine ratio and methylcitrate, the hallmark biomarkers of PA.

References

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Tangallapally R, et al. *J Med Chem.* 2024 Aug 22;67(16):14432-14442.

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

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