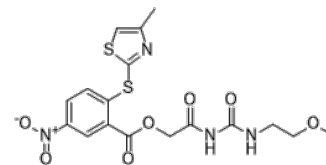


Product Name : UP109
Cat. No. : PC-22572
CAS No. : 781627-48-3
Molecular Formula : C₁₇H₁₈N₄O₇S₂
Molecular Weight : 454.47
Target : p97/VCP
Solubility : 10 mM in DMSO



CAS: 781627-48-3

Biological Activity

UP109 is a small molecule activator of **VCP ATPase** activity with EC₅₀ of 24.7 uM, E_{max} of 197%, activates VCP primarily by increasing D2 ATPase activity.

UP109 has at least some specificity for VCP over other AAA+ ATPases.

UP109 likely binds in the D2 ATPase domain of VCP.

UP109 (5 uM) effectively enhances clearance of TDP-4FL aggregates in cells expressing GFP-TDP-4FL.

UP109 is also effective in assisting clearance of TDP-4FL aggregates in iPSC-derived neurons.

References

Phan JM, et al. *J Clin Invest.* 2024 May 23:e169039.

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

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