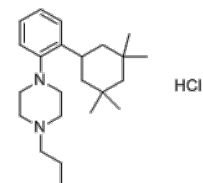


Product Name : ER-464195-01
Cat. No. : PC-35072
CAS No. : 859218-37-4
Molecular Formula : C₂₃H₃₉ClN₂
Molecular Weight : 379.029
Target : Integrin
Solubility : 10 mM in DMSO



Biological Activity

ER-464195-01 is a specific, orally active inhibitor that inhibits **Calreticulin** (CRT) binding to **integrin α** subunits (ITGAs) with IC₅₀ of 0.17, 0.36, and 0.23 μ M in the interaction between CRT and ITGA α 4, α L, and α M/ α 2/ α 5.

ER-464195-01 dose-dependently and specifically inhibits GST-fused CRT proteins binding to ITGA4 in vitro pull-down assay. ER-464195-01 inhibits the PMA-induced T cells and the fMLP-stimulated neutrophils bound to VCAM1 (IC₅₀=0.15 μ M) and ICAM-1 (IC₅₀=0.19 μ M), respectively.

ER-464195-01 suppresses the cell adhesion and the migration of leukocytes, prevents colitis and downregulates the expression of inflammation-related genes in DSS-treated mice, ameliorates the severity of disease in IBD mouse models.

References

Ohkuro M, et al. *Nat Commun*. 2018 May 17;9(1):1982.

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

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