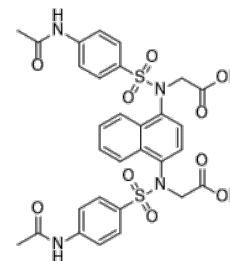


Product Name : CPUY192018
Cat. No. : PC-28127
CAS No. : 1803551-21-4
Molecular Formula : C₃₀H₂₈N₄O₁₀S₂
Molecular Weight : 668.69
Target : Keap1-Nrf2
Solubility : 10 mM in DMSO



Biological Activity

CPUY192018 is a potent small-molecule inhibitor of the **Keap1-Nrf2** PPI, has binding affinity for Keap1 with IC₅₀ of 14.4 nM in FP assays and ITC K_d of 39.8 nM.

CPUY192018 activated the Nrf2-ARE pathway in vitro.

CPUY192018 stimulated the transcription of the Nrf2-ARE regulated cytoprotective genes in NCM460 cells in an Nrf2-dependent manner.

CPUY192018 produced cytoprotective effects against the DSS-induced injury in the NCM460 cells.

CPUY192018 (40 mg/kg/day, oral gavage) ameliorated the pathological symptoms in the DSS-induced mouse model of chronic ulcerative colitis.

References

Lu MC, et al. *Sci Rep*. 2016 May 24;6:26585.

Jiang Z. Y. et al. *J. Med. Chem*. 58, 6410–6421,

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

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