

Product Datasheet

CPUY192018

Catalog No. **BP-01745** · CAS **1567836-15-0** · Form **free base** · Physical state **solid** · Color **off-white to light yellow** · Version **1.0** · Revision **2026-09-04**

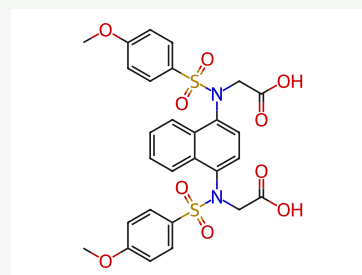
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Target Keap1-Nrf2; Apoptosis; Reactive Oxygen Species (ROS); NF-κB	Research area Inflammation/Immunology
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Molecular formula **C₂₈H₂₆N₂O₁₀S₂**

Molecular weight **614.6430**

STRUCTURE



DESCRIPTION

CPUY192018 is a potent Keap1-Nrf2-ARE inhibitor with an IC₅₀ of 0.63 μM. CPUY192018 exhibits induction of Nrf2-dependent gene NQO1 at 100 μM.

BIOLOGICAL ACTIVITY

In Vitro

CPUY192018 (0-10 μM; 0-24 h) can significantly increase the nuclear translocation and level of Nrf2, as well as the expression of Nrf2 downstream proteins in HK-2 cells.

CPUY192018 (0-10 μM; 16-24 h) can inhibit ROS production, reduce MDA levels, increase the GSH/GSSG ratio, inhibit apoptosis, cytokine secretion, and the activation of the NF-κB signaling pathway in HK-2 cells treated with LPS (HY-D1056).

In Vivo

CPUY192018 (5-20 mg/kg; intraperitoneal injection; 8 weeks) has an ameliorating effect in a mouse model of chronic renal inflammation induced by LPS (HY-D1056).

SOLUBILITY

Soluble in DMSO

REFERENCES

- [1]. Lu MC, et al. CPUY192018, a potent inhibitor of the Keap1-Nrf2 protein-protein interaction, alleviates renal inflammation in mice by restricting oxidative stress and NF-κB activation. Redox Biol. 2019 Sep;26:101266.
- [2]. Lee S, et al. Structure-activity relationships of 1,4-bis(arylsulfonamido)-benzene or naphthalene-N,N'-diacetic acids with varying C2-substituents as inhibitors of Keap1-Nrf2 protein-protein interaction. Eur J Med Chem. 2022;

237:114380.

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Lot CoA and SDS are separate documents.