

Screening Libraries

Proteins

Product Data Sheet

SIRT5 inhibitor 7

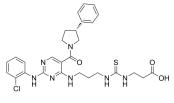
Cat. No.: HY-149426 CAS No.: 2951090-00-7 Molecular Formula: $C_{28}H_{32}CIN_7O_3S$

Molecular Weight: 582.12 Target: Sirtuin

Pathway: Cell Cycle/DNA Damage; Epigenetics

Storage: Please store the product under the recommended conditions in the Certificate of

Analysis.



BIOLOGICAL ACTIVITY

Description	SIRT5 inhibitor 7 (compound 58) is a substrate-competitive and selective SIRT5 inhibitor with anti-inflammatory activity. SIRT5 inhibitor 7 has renal protective effects and regulates protein succinylation and the release of pro-inflammatory cytokines. SIRT5 inhibitor 7 has in vivo activity in AKI mouse models of lipopolysaccharide (LPS) and cecal ligation/perforation (CLP)-induced sepsis-related acute kidney injury ^[1] .

IC₅₀ & Target

IC50: 310 nM (SIRT5)[1]

REFERENCES

[1]. Mou L, et al. Structure-Activity Relationship Studies of 2,4,5-Trisubstituted Pyrimidine Derivatives Leading to the Identification of a Novel and Potent Sirtuin 5 Inhibitor against Sepsis-Associated Acute Kidney Injury. J Med Chem. 2023 Aug 24;66(16):11517-11535...

Caution: Product has not been fully validated for medical applications. For research use only.

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