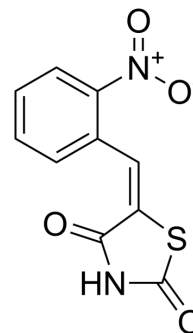


5-[(2-Nitrophenyl)methylene]-2,4-thiazolidinedione

| | |
|--------------------|---|
| Cat. No.: | HY-131044 |
| CAS No.: | 36140-65-5 |
| Molecular Formula: | C ₁₀ H ₆ N ₂ O ₄ S |
| Molecular Weight: | 250.23 |
| Target: | Bacterial; Fungal |
| Pathway: | Anti-infection |
| Storage: | Please store the product under the recommended conditions in the Certificate of Analysis. |



BIOLOGICAL ACTIVITY

Description

5-[(2-Nitrophenyl)methylene]-2,4-thiazolidinedione (Compound 4) has antimicrobial, anti-diabetic and antioxidant activities. 5-[(2-Nitrophenyl)methylene]-2,4-thiazolidinedione inhibits *B. subtilis*, *S. aureus*, *K. pneumoniae*, *E. coli*, and *S. typhi* with MICs of 4.5-9.9 $\mu\text{M}/\text{mL}$, and inhibits *A. niger* and *C. albicans* with MICs of 4.99 $\mu\text{M}/\text{mL}$ ^[1].

REFERENCES

[1]. Elkamhawy A, et al. Thiazolidine-2,4-dione-based irreversible allosteric IKK- β kinase inhibitors: Optimization into in vivo active anti-inflammatory agents. *Eur J Med Chem.* 2020 Feb 15;188:111955.

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

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