Urease-IN-4

Cat. No.: HY-152668

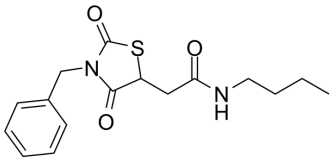
Molecular Formula: $C_{16}H_{20}N_2O_3S$

Molecular Weight: 320.41

Target: Bacterial

Pathway: Anti-infection

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



BIOLOGICAL ACTIVITY

Description	Urease-IN-4 is an effective inhibitor of urease with an IC_{50} value of 1.64 μM. Urease-IN-4 has low cytotoxicity and shows inhibitory activity on P. vulgaris with an IC_{50} value of 15.27 μg/mL[1].
IC_{50} & Target	IC50: 1.64 μM (Urease)[1]
In Vitro	Urease-IN-4 (Compound 6e) (100 μM; 72 h) has insignificant effect on the viability of MOLT-4 cells, and the cell viability percent is 91.7 %[1]. MCE has not independently confirmed the accuracy of these methods. They are for reference only. Cell Viability Assay[1]

Cell Line:	MOLT-4 cells.
Concentration:	100 μM.
Incubation Time:	72 h.
Result:	Showed low cytotoxicity.

REFERENCES

[1]. Dastyafteh N, et al. New thioxothiazolidinyl-acetamides derivatives as potent urease inhibitors: design, synthesis, in vitro inhibition, and molecular dynamic simulation. Sci Rep. 2023 Jan 2;13(1):21.

Tel: 609-228-6898 Fax: 609-228-5909 E-mail: tech@MedChemExpress.com

Address: 1 Deer Park Dr, Suite Q, Monmouth Junction, NJ 08852, USA