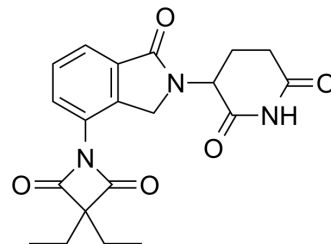


## Neutrophil elastase inhibitor 4

Cat. No.:	HY-155231
Molecular Formula:	C <sub>20</sub> H <sub>21</sub> N <sub>3</sub> O <sub>5</sub>
Molecular Weight:	383.4
Target:	Elastase
Pathway:	Metabolic Enzyme/Protease
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



### BIOLOGICAL ACTIVITY

**Description** Neutrophil elastase inhibitor 4 (compound 4f) is a competitive human neutrophil elastase (HNE) inhibitor (IC<sub>50</sub>: 42.30 nM, K<sub>i</sub>: 8.04 nM). Neutrophil elastase inhibitor 4 induces T47D cell apoptosis. Neutrophil elastase inhibitor 4 inhibits cell proliferation with IC<sub>50</sub>s of 21.25, 34.17, 29.93, 99.11 nM for T47D, RPMI 8226, A549, and HSF cells<sup>[1]</sup>.

**IC<sub>50</sub> & Target** 42.30 nM human neutrophil elastase<sup>[1]</sup>

### CUSTOMER VALIDATION

- J Leukoc Biol. 2023 Nov 7:qiad137.

See more customer validations on [www.MedChemExpress.com](http://www.MedChemExpress.com)

### REFERENCES

[1]. Donarska B, et al. Thalidomide derivatives as nanomolar human neutrophil elastase inhibitors: Rational design, synthesis, antiproliferative activity and mechanism of action. Bioorg Chem. 2023 Sep;138:106608.

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

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