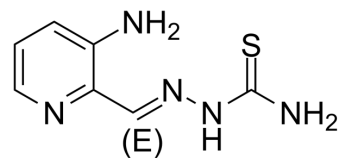


(E)-3-AP

| | |
|---------------------------|---|
| Cat. No.: | HY-10082A |
| CAS No.: | 200933-27-3 |
| Molecular Formula: | C ₇ H ₉ N ₅ S |
| Molecular Weight: | 195.24 |
| Target: | DNA/RNA Synthesis |
| Pathway: | Cell Cycle/DNA Damage |
| Storage: | Please store the product under the recommended conditions in the Certificate of Analysis. |



BIOLOGICAL ACTIVITY

| | |
|--------------------|--|
| Description | (E)-3-AP is the E configuration of 3-AP. 3-AP is a potent ribonucleotide reductase inhibitor. 3-AP shows anti-proliferative activity. 3-AP shows anticancer activity in L1210 leukemia model. 3-AP inhibits RR activity and DNA synthesis ^{[1][2]} . |
| In Vitro | 3-AP shows anti-proliferative activity with IC ₅₀ values of 1.3, 1.6 μM for L1210, L1210/HU _r cells, respectively ^[1] . 3-AP (5, 10, 15, 20, 30 mg/kg; i.p.; twice daily for six consecutive days) significantly increases in life span were observed with each dosage employed and long term survivors ^[1] . MCE has not independently confirmed the accuracy of these methods. They are for reference only. |

REFERENCES

[1]. Finch RA, et al. Triapine (3-aminopyridine-2-carboxaldehyde thiosemicarbazone; 3-AP): an inhibitor of ribonucleotide reductase with antineoplastic activity. *Adv Enzyme Regul.* 1999;39:3-12.

[2]. Enyedy ÉA, et al. Complex formation and cytotoxicity of Triapine derivatives: a comparative solution study on the effect of the chalcogen atom and NH-methylation. *Dalton Trans.* 2020 Dec 8;49(46):16887-16902.

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

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