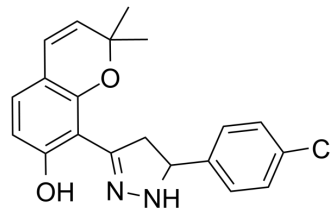


## Anti-osteoporosis agent-1

Cat. No.:	HY-145896
CAS No.:	2761577-50-6
Molecular Formula:	C <sub>20</sub> H <sub>19</sub> ClN <sub>2</sub> O <sub>2</sub>
Molecular Weight:	354.83
Target:	Apoptosis
Pathway:	Apoptosis
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



### BIOLOGICAL ACTIVITY

Description	Anti-osteoporosis agent-1 (comp 4aa) is a potent replication protein A (RPA) inhibitor (IC <sub>50</sub> =18 μM) <sup>[1]</sup> .
In Vitro	Anti-osteoporosis agent-1 is an active molecule which showed effective mineralisation of osteoblast cells and up regulates the osteogenic marker gene such as Bmp-2, Runx-2 and Type-1col at both transcriptional and translational level. Besides exhibiting potential osteogenic activity. In addition, Anti-osteoporosis agent-1 also own significant anti-apoptotic activity at 1 pM &100 pM concentration and increases the osteoblast survival in serum deprived conditions <sup>[1]</sup> . MCE has not independently confirmed the accuracy of these methods. They are for reference only.

### REFERENCES

[1]. Kriti Sharma, et al. Pyrazoline analogues: Design, synthesis, and evaluation of anti-osteoporosis activity. Bioorg Med Chem Lett. 2022 Mar 15; 60:128585.

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

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