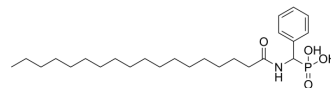


## PAP-IN-1

Cat. No.:	HY-149942
Molecular Formula:	C <sub>25</sub> H <sub>44</sub> NO <sub>4</sub> P
Molecular Weight:	453.59
Target:	Others
Pathway:	Others
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



### BIOLOGICAL ACTIVITY

Description	PAP-IN-1 (compound 28) is an inhibitor of purple acid phosphatases (PAPs), a ubiquitous binuclear metallohydrolase. PAP-IN-1 inhibits mammalian PAP with K <sub>i</sub> value of 168 nM. PAP-IN-1 targets to pig PAP with K <sub>i</sub> c value of 0.17 μM. PAP inhibitors can be used for research of anti-osteoporotic drugs <sup>[1]</sup> .
IC <sub>50</sub> & Target	Purple acid phosphatases (PAP) <sup>[1]</sup>

### REFERENCES

[1]. Feder D, et al. Optimization of an α-aminonaphthylmethylphosphonic acid inhibitor of purple acid phosphatase using rational structure-based design approaches. Eur J Med Chem. 2023 Jun 5;254:115383.

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

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