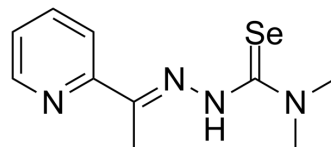


## Ap44mSe

Cat. No.:	HY-115832
CAS No.:	79514-49-1
Molecular Formula:	C <sub>10</sub> H <sub>14</sub> N <sub>4</sub> Se
Molecular Weight:	269.2
Target:	Others
Pathway:	Others
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



### BIOLOGICAL ACTIVITY

#### Description

Ap44mSe is a selenosemicarbazone that effectively depletes cellular Fe, resulting in transferrin receptor-1 up-regulation, ferritin down-regulation, and increased expression of the potent metastasis suppressor, N-myc downstream regulated gene-1. Ap44mSe forms redox active Cu complexes that target the lysosome to induce lysosomal membrane permeabilization<sup>[1]</sup>.

### REFERENCES

[1]. Zaynab Al-Eisawi, et al. Novel Mechanism of Cytotoxicity for the Selective Selenosemicarbazone, 2-Acetylpyridine 4,4-Dimethyl-3-selenosemicarbazone (Ap44mSe): Lysosomal Membrane Permeabilization. J Med Chem. 2016 Jan 14;59(1):294-312.

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

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