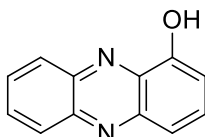


## Hemipyocyanine

Code No.: **BIA-H1520**

Pack sizes: **5 mg, 25 mg**



Synonyms : 1-Hydroxyphenazine, 1-Phenazinol, Pyoxanthose, NSC 88882

### Specifications

CAS #	: 528-71-2
Molecular Formula	: C <sub>12</sub> H <sub>8</sub> N <sub>2</sub> O
Molecular Weight	: 196.2
Source	: <i>Pseudomonas aeruginosa</i>
Appearance	: Yellow to light tan solid
Purity	: >95% by HPLC
Long Term Storage	: -20°C
Solubility	: Soluble in ethanol, methanol, DMF or DMSO. Limited water solubility.

### Application Notes

Hemipyocyanine (1-hydroxyphenazine) is a simple phenazine metabolite produced by several species of *Pseudomonas* and *Streptomyces*. Hemipyocyanine exhibits broad spectrum activity with weak antibacterial, antifungal and antiviral activity. In the search for novel actives, hemipyocyanine and related phenazines are important dereplication standards to eliminate leads due to high amounts of weakly potent actives. Hemipyocyanine plays an important role in the biocontrol of plant diseases by some *Pseudomonas* strains.

### References

1. Antibiotic substances produced by *Pseudomonas aeruginosa*. Hays E.E. et al., J. Biol. Chem. 1945, 159, 725.
2. Biosynthesis and regulation of phenazine compounds in *Pseudomonas* spp. Mavrodi D.V. et al., in *Pseudomonas*, model organism, pathogen, cell factory. (Verlag GmbH & Co. Germany) 2009, 331.