

Product Name: Hemipyocyanine

Product Number: H028

CAS Number: 528-71-2

Molecular Formula: $C_{12}H_8N_2O$

Molecular Weight: 196.1

Appearance: Yellow to light tan solid

Storage Conditions: -20°C

Description: 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.

Hemipyocyanine is soluble in ethanol, methanol, DMF or DMSO. Limited water solubility.

References: Antibiotic substances produced by *Pseudomonas aeruginosa*. Hays E.E. et al. J. Biol. Chem. 1945, 159, 725.

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.