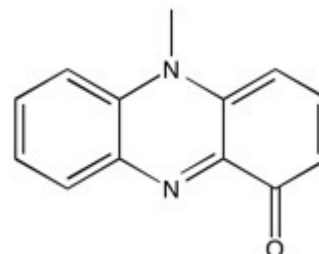


## Pyocyanine, ROS generator

Catalog	Unit
TBI1507-5MG	5 mg
TBI1507-25MG	25 mg

### Product Details

**Formal Name:** 5-Methyl-1(5H)-phenazinone  
**Alternate Names:** Pyocyanin; Sanasin; Sanazin  
**Molecular Formula:** C<sub>13</sub>H<sub>10</sub>N<sub>2</sub>O  
**Formula Weight:** 210.23  
**CAS Number:** 85-66-5  
**Purity:** >98%  
**Formulation:** powder  
**Solubility:** Soluble in DMSO (up to 15 mg/ml).  
**Storage:** -20°C  
**Stability:** ≥ 2 years.



### Applications

ROS generator

### Functions

Pyocyanine, a redox-active phenazine produced by *P. aeruginosa* and other pathogens, is an electron receptor, which stimulates redox cycling in bacteria as well as in a variety of human cell lines. It enhances oxidative metabolism, which increases the formation of intracellular reactive oxygen species (ROS) via reduction of NADPH. Pyocyanine accelerates neutrophil apoptosis in vitro. Pyocyanine production by *P. aeruginosa* suppresses the acute inflammatory response by pathogen-driven acceleration of neutrophil apoptosis and associated reduction of local inflammation.

### Application Procedures

First dissolved in DMSO (up to 15 mg/ml), then diluted to aqueous buffer. Solutions in DMSO may be stored at -20° for up to 1 week.

**For research use only.**