Pyocyanin

ROS inducer

Cytotoxic pigment secreted by *Pseudomonas aeruginosa*, which frequently infects the lungs of immuno-suppressed patients, as well as those with cystic fibrosis. Pyocyanin toxicity results from its ability to undergo reduction by NAD(P)H and subsequent generation of superoxide and H_2O_2 directly in the lungs.

Citations: 6 View Online »

Ordering Information Order Online »

ENZ-53001-C001	1µmol

Manuals, SDS & CofA View Online »

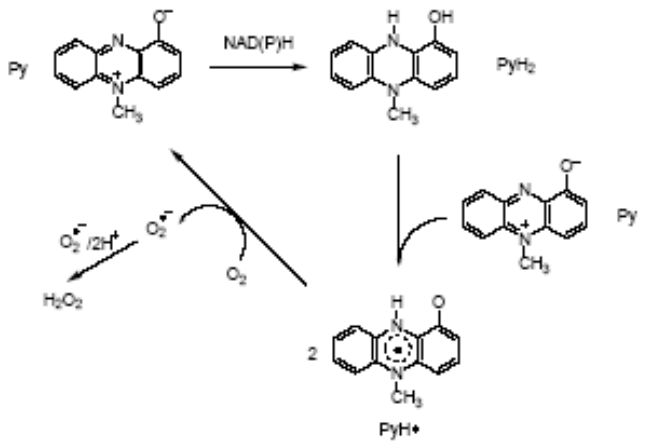
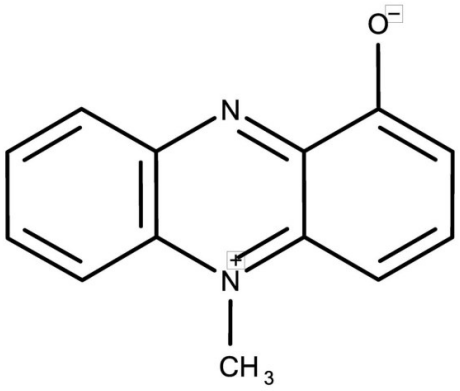


Figure: Pyocyanin is reduced by NAD(P)H and generates superoxide and H_2O_2.



Handling & Storage

Use/Stability	Stable for at least 1 year after receipt when stored at -80°C.
Handling	Avoid freeze/thaw cycles.
Short Term Storage	-20°C
Long Term Storage	-80°C
Shipping	Dry Ice

Regulatory Status

RUO - Research Use Only

Product Details

Alternative Name	Sanasin, 1-hydroxy-N-methylphenazine
CAS	85-66-5
Couple Target	ROS
Couple Type	Dye
Formula	$C_{13}H_{10}N_2O$
Formulation	Lyophilized.
MW	210.2
Purity	≥98% (HPLC)
Quantity	1 μmol
Reconstitution	Reconstitute the contents of the vial in 100μl solvent to yield a 10mM stock solution.
Solubility	Soluble in DMSO or dimethyl formamide.

Technical Info / Product Notes

Pyocyanin is a member of the CELLESTIAL® product line, reagents and assay kits comprising fluorescent molecular probes that have been extensively benchmarked for live cell analysis applications. CELLESTIAL® reagents and kits are optimal for use in demanding imaging applications, such as confocal microscopy, flow cytometry and HCS, where consistency and reproducibility are required.

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