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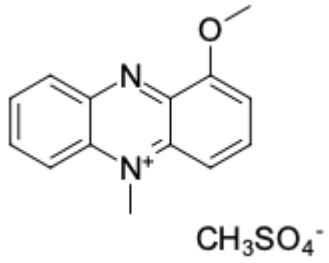
1-Methoxy PMS, electron mediator

http://www.lumiprobe.com/p/methoxy-pms-electron-mediator

1-Methoxy PMS (1-methoxy-5-methylphenazinium methyl sulfate) is a stable, water-soluble electron-transfer mediator critical for biochemical assays involving NAD(P)H-dependent dehydrogenases. It facilitates electron shuttling between intracellular NAD(P)H and extracellular tetrazolium dyes (e.g., WST-8), allowing for the real-time monitoring of cellular metabolic activity without cytotoxicity. Its enhanced stability over traditional phenazine methosulfate (PMS) makes it ideal for long-term experiments.



Structure of 1-Methoxy PMS

General properties

Appearance:	brown powder
Molecular weight:	336.37
CAS number:	65162-13-2
Molecular formula:	$C_{15}H_{16}N_2O_5S$
IUPAC name:	1-Methoxy-5-methylphenazinium methyl sulfate
Solubility:	excellent in water, good in methanol, DMSO
Quality control:	NMR ^1H and HPLC-MS (95+%)
Storage conditions:	24 months after receival at -20°C in the dark. Transportation: at room temperature for up to 3 weeks. Desiccate.
Legal statement:	This Product is offered and sold for research purposes only. It has not been tested for safety and efficacy in food, drug, medical device, cosmetic, commercial or any other use. Supply does not express or imply authorization to use for any other purpose, including, without limitation, in vitro diagnostic purposes, in the manufacture of food or pharmaceutical products, in medical devices or in cosmetic products.