

PTZ-343

Chemical Properties

CAS No. :	101199-38-6
Formula:	C ₁₅ H ₁₄ NNaO ₃ S ₂
Molecular Weight:	343.396
Storage:	Powder: -20°C for 3 years In solvent: -80°C for 1 year Actual storage temperature shall be subject to the COA.

Biological Description

Description	PTZ-343 is a potent enhancer of Luminol, acting as an electron transfer mediator. It reacts with HRP-II to release HRP and a PTZ-343 radical, which then oxidizes luminol anions to induce light emission.
Targets(IC50)	Others

Solubility Information

Solubility	H ₂ O: Insoluble, DMSO: 250.00 mg/mL (728.02 mM),Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
In vivo Formulation	10% DMSO+90% Saline: 10.00 mg/mL (29.12 mM),Solution. <i>Please add the solvents sequentially, clarifying the solution as much as possible before adding the next one. Dissolve by heating and/or sonication if necessary. Working solution is recommended to be prepared and used immediately. The formulation provided above is for reference purposes only. In vivo formulations may vary and should be modified based on specific experimental conditions.</i>

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.9121 mL	14.5603 mL	29.1206 mL
5 mM	0.5824 mL	2.9121 mL	5.8241 mL
10 mM	0.2912 mL	1.456 mL	2.9121 mL
50 mM	0.0582 mL	0.2912 mL	0.5824 mL

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. Please use it as soon as possible.

Note: The dilution table applies only to solid products. For liquid products, please calculate the stock solution based on the stated concentration and/or density.

Reference

WenxiaZhang, et al. A novel electrochemical biomimetic sensor based on E-MIP artificial acceptor and SI-ATRP assisted signal amplification. Journal of Electroanalytical Chemistry. Volume 842, 1 June 2019, Pages 24-33

Ettore Marzocchi, et al. Chemiluminescent detection systems of horseradish peroxidase employing nucleophilic acylation catalysts. Anal Biochem. 2008 Jun 15;377(2):189-94.

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