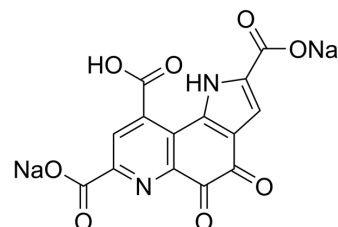


## Pyrroloquinoline quinone disodium salt

<b>Cat. No.:</b>	HY-100196A
<b>CAS No.:</b>	122628-50-6
<b>Molecular Formula:</b>	C <sub>14</sub> H <sub>4</sub> N <sub>2</sub> Na <sub>2</sub> O <sub>8</sub>
<b>Molecular Weight:</b>	374.17
<b>Target:</b>	Endogenous Metabolite
<b>Pathway:</b>	Metabolic Enzyme/Protease
<b>Storage:</b>	4°C, sealed storage, away from moisture * In solvent : -80°C, 6 months; -20°C, 1 month (sealed storage, away from moisture)



### SOLVENT & SOLUBILITY

<b>In Vitro</b>	H <sub>2</sub> O : 1.25 mg/mL (3.34 mM; Need ultrasonic)				
		Solvent Concentration	Mass 1 mg	5 mg	10 mg
	<b>Preparing Stock Solutions</b>	1 mM	2.6726 mL	13.3629 mL	26.7258 mL
		5 mM	---	---	---
		10 mM	---	---	---
Please refer to the solubility information to select the appropriate solvent.					
<b>In Vivo</b>	1. Add each solvent one by one: 0.5% CMC-Na/saline water Solubility: 5 mg/mL (13.36 mM); Suspended solution; Need ultrasonic  2. Add each solvent one by one: PBS Solubility: 2 mg/mL (5.35 mM); Clear solution; Need ultrasonic and warming and heat to 60°C				

### BIOLOGICAL ACTIVITY

<b>Description</b>	Pyrroloquinoline quinone disodium salt, a redox co-factor, is an anionic, redox-cycling orthoquinone. Pyrroloquinoline quinone disodium salt is isolated from cultures of methylotropic bacteria and tissues of mammals. Pyrroloquinoline quinone disodium salt is an essential nutrient for mammals and is important for immune function <sup>[1][2]</sup> .	
<b>IC<sub>50</sub> &amp; Target</b>	Microbial Metabolite	Human Endogenous Metabolite
<b>In Vitro</b>	Mouse pups born to and nursing from Pyrroloquinoline quinone disodium salt-deprived dams have a compromised immune response as well as alopecia, a hunched posture, and a susceptibility to aortic aneurysms <sup>[2]</sup> . MCE has not independently confirmed the accuracy of these methods. They are for reference only.	

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## REFERENCES

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- [1]. Moog RS, et al. Evidence for methoxatin (pyrroloquinolinequinone) as the cofactor in bovine plasma amine oxidase from resonance Raman spectroscopy. Proc Natl Acad Sci U S A. 1986 Nov;83(22):8435-9.
- [2]. Bishop A, et al. Methoxatin (PQQ) in guinea-pig neutrophils. Free Radic Biol Med. 1994 Oct;17(4):311-20.
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**Caution: Product has not been fully validated for medical applications. For research use only.**

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