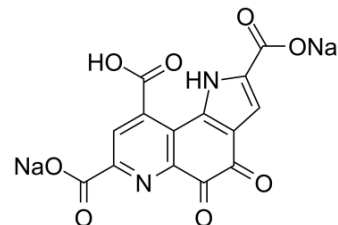


## Pyrroloquinoline quinone disodium salt

Cat. No.:	HY-100196A		
CAS No.:	122628-50-6		
Molecular Formula:	C <sub>14</sub> H <sub>4</sub> N <sub>2</sub> Na <sub>2</sub> O <sub>8</sub>		
Molecular Weight:	374.17		
Target:	Endogenous Metabolite		
Pathway:	Metabolic Enzyme/Protease		
Storage:	Powder	-20°C	3 years
		4°C	2 years
	In solvent	-80°C	6 months
		-20°C	1 month



### SOLVENT & SOLUBILITY

#### In Vitro

H<sub>2</sub>O : 6.16 mg/mL (16.46 mM; Need ultrasonic and warming)  
 H<sub>2</sub>O : 5 mg/mL (13.36 mM; Need ultrasonic)

Preparing Stock Solutions	Solvent	Mass	1 mg	5 mg	10 mg
	Concentration				
	1 mM		2.6726 mL	13.3629 mL	26.7258 mL
	5 mM		0.5345 mL	2.6726 mL	5.3452 mL
	10 mM		0.2673 mL	1.3363 mL	2.6726 mL

Please refer to the solubility information to select the appropriate solvent.

### BIOLOGICAL ACTIVITY

#### Description

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]</sup> [2].

#### IC<sub>50</sub> & Target

Human Endogenous Metabolite

#### In Vitro

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>.

### 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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