

Pyrroloquinoline quinone(PQQ)

Product Information

CAS No: 72909-34-3

Mol. Formula: C₁₄H₆N₂O₈

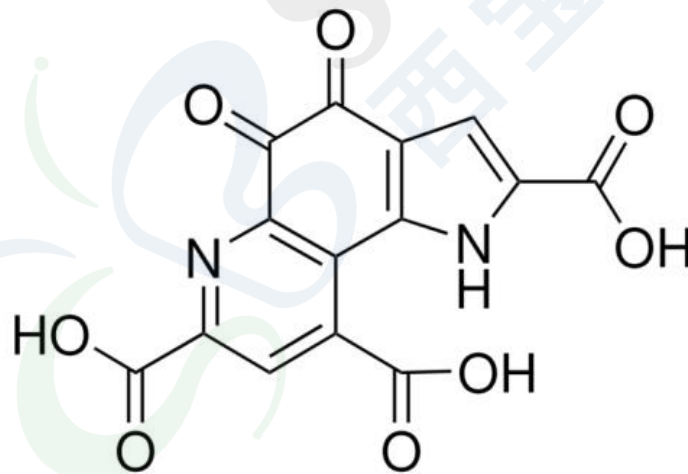
Mol. Weight: 330.21

Packing:25KG/DRUM

Purity:98%

Appearance: red to deep red

Storage: Keep it dry and shielded from light, storing it in a sealed condition at room temperature.



Product Introduction

Pyrroloquinoline quinone (PQQ) serves as a redox cofactor for Glucose dehydrogenase, functioning as an orthocyclic antioxidant amidst diverse environmental stressors and nutrient-rich conditions in both prokaryotic and eukaryotic organisms.

This compound is exclusively synthesized by microbes and is essential for catalyzing the conversion of glucose to gluconic acid and 2-ketogluconic acid by both gram-positive and gram-negative bacteria. PQQ exhibits properties as an anti-neurological, anti-degenerative, anti-melanogenic, and anti-cancer agent, owing to its antioxidative properties which involve the scavenging of free radicals.

Applications

1. Incorporated as a constituent within nanocurcumin formulation (NCF), to investigate its therapeutic potential in alleviating hypoxia-induced stress in hypertrophied cardiomyocytes.
2. Employed to evaluate its efficacy in mitigating restrained oxidative stress and hepatic fibrogenesis in mouse models.
3. Shown to possess noteworthy blood-brain barrier permeability and minimal toxicity, thereby capable of delaying neurodegeneration and mitigating cognitive deficits in AD mouse models.
4. Utilized as a benchmark in fluorescence analysis.



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