2,6-Dichloroquinone-4-chloroimide

Cat. No.: HY-W105135

CAS No.: 101-38-2

Molecular Formula: $C_6H_2Cl_3NO$

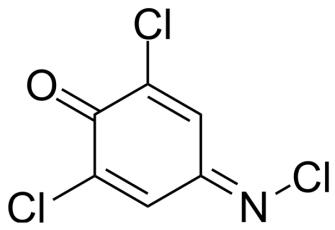
Molecular Weight: 210.45

Target: Biochemical Assay Reagents

Pathway: Others

Storage:

Powder	-20°C	3 years
	4°C	2 years
In solvent	-80°C	6 months
	-20°C	1 month



SOLVENT & SOLUBILITY

In Vitro

DMSO : 100 mg/mL (475.17 mM; Need ultrasonic)

Preparing Stock Solutions	Mass / Solvent / Concentration	1 mg	5 mg	10 mg
	1 mM	4.7517 mL	23.7586 mL	47.5172 mL
	5 mM	0.9503 mL	4.7517 mL	9.5034 mL
	10 mM	0.4752 mL	2.3759 mL	4.7517 mL

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

In Vivo

1. Add each solvent one by one: 10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline
   Solubility: ≥ 2.5 mg/mL (11.88 mM); Clear solution

BIOLOGICAL ACTIVITY

Description

2,6-Dichloroquinone-4-chloroimide is a spray reagent for organic compounds. 2,6-Dichloroquinone-4-chloroimide can be used in thin-layer chromatograms. 2,6-Dichloroquinone-4-chloroimide can be used as an optical sensor for rapid detection of permethrin in treated wood[1][2].

REFERENCES

[1]. Joseph H. Ross, et al. 2,6-Dichloroquinone 4-chloroimide as a reagent for amines and aromatic hydrocarbons on thin-layer chromatograms. Anal. Chem. 1968, 40, 14, 2138–2143.

[2]. Arip MN, et al. Reaction of 2,6-dichloroquinone-4-chloroimide (Gibbs reagent) with permethrin - an optical sensor for rapid detection of permethrin in treated wood. Chem Cent J. 2013 Jul 16;7:122.

Caution: Product has not been fully validated for medical applications. For research use only.

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