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Produktinformation



Forschungsprodukte & Biochemikalien



Zellkultur & Verbrauchsmaterial



Diagnostik & molekulare Diagnostik



Laborgeräte & Service

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Lieferung & Zahlungsart

siehe unsere [Liefer- und Versandbedingungen](#)

Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

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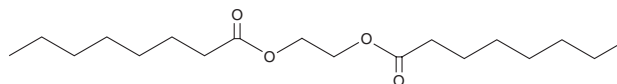
PRODUCT INFORMATION



Diocanoyl Glycol

Item No. 31515

CAS Registry No.: 627-86-1
Formal Name: octanoic acid, 1,1'-(1,2-ethanediyl) ester
Synonyms: Diocanoyl Glycol,
diC8-Ethylene Glycol,
Ethylene Glycol Diocanoylate,
8:0 Ethylene Glycol, NSC 97300
MF: C₁₈H₃₄O₄
FW: 314.5
Purity: ≥98%
Supplied as: A neat oil
Storage: -20°C
Stability: ≥1 year



Information represents the product specifications. Batch specific analytical results are provided on each certificate of analysis.

Laboratory Procedures

Diocanoyl glycol is supplied as a neat oil. A stock solution may be made by dissolving the diocanoyl glycol in the solvent of choice, which should be purged with an inert gas. Diocanoyl glycol is soluble in organic solvents such as ethanol, DMSO, and dimethyl formamide. The solubility of diocanoyl glycol in these solvents is approximately 30 mg/ml.

Description

Diocanoyl glycol is a diacylglycerol kinase (DGK) inhibitor ($K_i = 58 \mu\text{M}$).¹ It reduces basal and thrombin-stimulated phosphatidic acid levels in washed isolated human platelets when used at concentrations of 30, 100, and 500 μM . Dietary administration of diocanoyl glycol inhibits the growth of *S. litura* and *H. armigera* second instar larvae ($\text{EC}_{50}\text{s} = 1.98$ and 2.08 mg/ml , respectively) and induces mortality when applied as a spray ($\text{LC}_{50}\text{s} = 6.1$ and 6.5 mg/ml , respectively).²

References

1. Bishop, W.R., Ganong, B.R., and Bell, R.M. Attenuation of sn-1,2-diacylglycerol second messengers by diacylglycerol kinase. Inhibition by diacylglycerol analogs in vitro and in human platelets. *J. Biol. Chem.* **261(15)**, 6993-7000 (1986).
2. Koul, O., Singh, G., Singh, R., et al. Biorational glycol diesters as dietary toxins versus bioefficacy of sucrose octanoate against lepidopteran larvae. *Ind. Crops Prod.* **40(1)**, 151-159 (2012).

WARNING

THIS PRODUCT IS FOR RESEARCH ONLY - NOT FOR HUMAN OR VETERINARY DIAGNOSTIC OR THERAPEUTIC USE.

SAFETY DATA

This material should be considered hazardous until further information becomes available. Do not ingest, inhale, get in eyes, on skin, or on clothing. Wash thoroughly after handling. Before use, the user must review the [complete](#) Safety Data Sheet, which has been sent via email to your institution.

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