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Produktinformation



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Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

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PRODUCT INFORMATION



2,3-Oxidosqualene

Item No. 36187

CAS Registry No.: 7200-26-2
Formal Name: 2,2-dimethyl-3-[(3E,7E,11E,15E)-3,7,12,16,20-pentamethyl-3,7,11,15,19-heneicosapentaen-1-yl]-oxirane

Synonyms: (3R,S)-Oxidosqualene, Squalene 2,3-oxide

MF: C₃₀H₅₀O

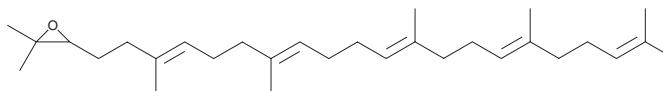
FW: 426.7

Purity: ≥90%

Supplied as: A neat oil

Storage: -80°C

Stability: ≥2 years



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

Laboratory Procedures

2,3-Oxidosqualene is supplied as a neat oil. A stock solution may be made by dissolving the 2,3-oxidosqualene in the solvent of choice, which should be purged with an inert gas. 2,3-Oxidosqualene is slightly soluble in chloroform.

Description

2,3-Oxidosqualene is an intermediate in the biosynthesis of sterols such as lanosterol (Item No. 19521), cycloartenol, and cholesterol (Item No. 9003100).^{1,2} It is also an intermediate in the biosynthesis of the triterpenoid β-amyrin (Item No. 20949).³

References

1. Nes, W.D. Biosynthesis of cholesterol and other sterols. *Chem. Rev.* **111**(10), 6423-6451 (2011).
2. Willett, J.D., Sharpless, K.B., Lord, K.E., *et al.* Squalene-2,3-oxide, an intermediate in the enzymatic conversion of squalene to lanosterol and cholesterol. *J. Biol. Chem.* **242**(18), 4182-4191 (1967).
3. Kajikawa, M., Yamato, K.T., Fukuzawa, H., *et al.* Cloning and characterization of a cDNA encoding beta-amyrin synthase from petroleum plant *Euphorbia tirucalli* L. *Phytochemistry* **66**(15), 1759-1766 (2005).

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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