



**LKT Laboratories, Inc.**

**(Z)-1,-Bis(2-methoxy-5-(trifluoromethyl)phenyl)diazene oxide**

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## Product Information

Product ID D3300

CAS No. 2377-31-3

Chemical Name

Synonym (Z)-Diazene Oxide

Formula  $C_{16}H_{12}F_6N_2O_3$

Formula Wt. 394.27

Melting Point 130°C

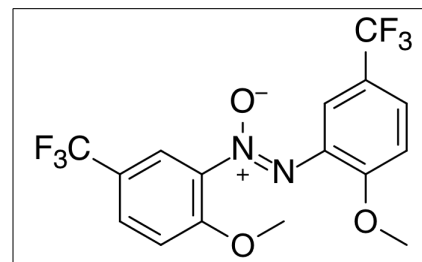
Purity ≥98%

Solubility

Store Temp -20°C

Ship Temp Ambient

**Description** (Z)-1,-Bis(2-methoxy-5-(trifluoromethyl)phenyl)diazene oxide is an azoxy compound useful as an intermediate in chemical synthesis. (Z)-Diazene oxide may be useful in the production of novel azo dyes. However, many well developed azo dyes are known to bioaccumulate in the environment with hazardous effects. There may be some unique bacteria that are able to degrade these substances.



## Pricing and Availability

*Bulk quantities available upon request*

Product ID	Size	List Price
D3300	25 mg	\$107.30
D3300	100 mg	\$322.00
D3300	250 mg	\$608.10
D3300	500 mg	\$1001.70

**References** Chittal V, Gracias M, Anu A, et al. Biodecolorization and biodegradation of azo dye reactive orange-16 by marine Nocardioopsis sp. Iran J Biotechnol. 2019 Sep 1;17(3):e1551. PMID: 32195279.

Chen G, An X, Li H, et al. Detoxification of azo dye Direct Black G by thermophilic Anoxybacillus sp. PDR2 and its application potential in bioremediation. Ecotoxicol Environ Saf. 2021 May;214:112084. PMID: 33640726.

Nho S, Cui X, Kweon O, et al. Phylogenetically diverse bacteria isolated from tattoo inks, an azo dye-rich environment, decolorize a wide range of azo dyes. Ann Microbiol. 2021 Sep 21;71(1):10.1186. PMID: 34744534.

Zhuang M, Sanganyado E, Xu L, et al. High throughput sediment DNA sequencing reveals azo dye degrading bacteria inhabit nearshore sediments. Microorganisms. 2020 Feb 9;8(2):233. PMID: 32050437.

Ali S, Al-Tohamy R, Koutra E, et al. Coupling azo dye degradation and biodiesel production by manganese-dependent peroxidase producing oleaginous yeasts from wood-feeding termite gut symbionts. Biotechnol Biofuels. 2021 Mar 8;14(1):61. PMID: 33685508.

**Caution:** This product is intended for laboratory and research use only. It is not for human or drug use.