

Product Data Sheet

Product Name: DTUN
Cat. No.: GC48650

Chemical Properties

Cas. No.

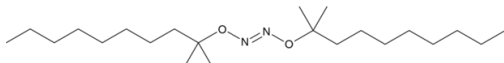
SMILES CC(O/N=N/OC(CCCCCCCC)(C)C(C)CCCCCCCC

Formula $C_{22}H_{46}N_2O_2$ M.Wt 370.6

Solubility Ethanol: 50 mg/ml Storage $-80^{\circ}C$, protect from light

General tips For obtaining a higher solubility, please warm the tube at $37^{\circ}C$ and shake it in the ultrasonic bath for a while. Stock solution can be stored below $-20^{\circ}C$ for several months.

Shipping Condition Evaluation sample solution: ship with blue ice All other available size: ship with RT, or blue ice upon request.

Structure 

Background

DTUN is a lipophilic hyponitrite radical initiator.¹ It initiates co-oxidation of STY-BODIPY-embedded egg phosphatidylcholine liposomes when used at a concentration of 0.2 mM. DTUN has been used in fluorescence-enabled inhibited autoxidation (FENIX) assays for the development of ferroptosis inhibitors and the study of antioxidants in lipid membranes.^{1,2}

1. Shah, R., Farmer, L.A., Zilka, O., et al. Beyond DPPH: Use of fluorescence-enabled inhibited autoxidation to predict oxidative cell death rescue Cell Chem. Biol. 26(11)1594-1607(2019) 2. Soula, M., Weber, R.A., Zilka, O., et al. Metabolic determinants of cancer cell sensitivity to canonical ferroptosis inducers Nat. Chem. Biol. 16(12)1351-1360(2020)

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

Tel: (909) 407-4943 Fax: (626) 353-8530 E-mail: tech@glpbio.com

Address: 10292 Central Ave. #205, Montclair, CA, USA