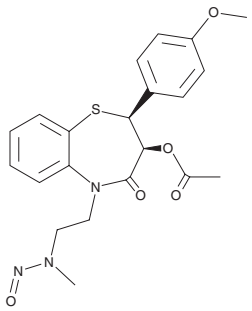
PRODUCT INFORMATION

N-nitroso-N-desmethyl Diltiazem

Item No. 46422

CAS Registry No.: 3036581-85-5
Formal Name: (2S,3S)-3-(acetyloxy)-2,3-dihydro-2-(4-methoxyphenyl)-5-[2-(methylnitrosoamino) ethyl]-1,5-benzothiazepin-4(5H)-one
Synonyms: NNDD, N-nitroso desmethyl Diltiazem
MF: $C_{21}H_{23}N_3O_5S$
FW: 429.5
Purity: ≥95%
Supplied as: A solid
Storage: -20°C
Stability: ≥4 years



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

Laboratory Procedures

N-nitroso-N-desmethyl Diltiazem is supplied as a solid. A stock solution may be made by dissolving the N-nitroso-N-desmethyl diltiazem in the solvent of choice, which should be purged with an inert gas. N-nitroso-N-desmethyl Diltiazem is soluble in a 1:1 solution of acetonitrile:methanol.

Description

N-nitroso-N-desmethyl Diltiazem is a potential impurity in commercial preparations of the calcium channel inhibitor diltiazem.[1] It is a member of the nitrosamine drug substance-related impurity (NDSRI) class of compounds, which is composed of potentially genotoxic and/or carcinogenic nitrosamine-related impurities.

Reference

1. Mandapaka, M.K. and Boddu, V. A simple and rapid analytical method to detect and quantify the N-nitroso desmethyl diltiazem impurity by liquid chromatography-tandem mass spectrometry in diltiazem hydrochloride. *Sep. Sci. Plus* **8(5)**, e70065 (2025).

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.

WARRANTY AND LIMITATION OF REMEDY
Buyer agrees to purchase the material subject to Cayman's Terms and Conditions. Complete Terms and Conditions including Warranty and Limitation of Liability information can be found on our website.

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