

Produktinformation



Forschungsprodukte & Biochemikalien



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Diagnostik & molekulare Diagnostik



Laborgeräte & Service

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PRODUCT INFORMATION



(2'S)-Nicotine-1-oxide

Item No. 22153

CAS Registry No.: 2820-55-5

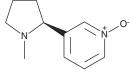
Formal Name: 3-[(2S)-1-methyl-2-pyrrolidinyl]-pyridine, 1-oxide

Synonym: Nicotine-N-oxide MF: $C_{10}H_{14}N_2O$ FW: 178.2 **Purity:** ≥98%

 λ_{max} : 216, 267 nm A crystalline solid UV/Vis.: Supplied as:

-20°C Storage: Stability: ≥2 years

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



Laboratory Procedures

(2'S)-Nicotine-1-oxide is supplied as a crystalline solid. A stock solution may be made by dissolving the (2'S)-nicotine-1-oxide in the solvent of choice, which should be purged with an inert gas. (2'S)-Nicotine-1oxide is soluble in organic solvents such as ethanol, DMSO, and dimethyl formamide (DMF). The solubility of (2'S)-nicotine-1-oxide in ethanol and DMF is approximately 50 mg/ml and approximately 30 mg/ml in DMSO

Further dilutions of the stock solution into aqueous buffers or isotonic saline should be made prior to performing biological experiments. Ensure that the residual amount of organic solvent is insignificant, since organic solvents may have physiological effects at low concentrations. Organic solvent-free aqueous solutions of (2'S)-nicotine-1-oxide can be prepared by directly dissolving the crystalline solid in aqueous buffers. The solubility of (2'S)-nicotine-1-oxide in PBS (pH 7.2) is approximately 1 mg/ml. We do not recommend storing the aqueous solution for more than one day.

Description

(2'S)-Nicotine-1-oxide is a metabolite of nicotine (Item No. 16535).¹ It is formed when nicotine is metabolized in the liver by cytochrome P450 (CYP) isoform CYP2A6. (2'S)-Nicotine-1-oxide has been detected in human sperm and semen.

Reference

1. Abu-Awwad, A., Arafat, T., and Schmitz, O.J. Simultaneous determination of nicotine, cotinine, and nicotine N-oxide in human plasma, semen, and sperm by LC-Orbitrap MS. Anal. Bioanal. Chem. 408(23), 6473-6481 (2016).

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

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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