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**Product Data Sheet**

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Product Name: (2'S)-Nicotine-1-oxide

Cat. No.: GC18622

**Chemical Properties**

Cas. No. 2820-55-5

Chemical Name 3-[(2S)-1-methyl-2-pyrrolidinyl]-pyridine 1-oxide

SMILES CN1CCC[C@H]1C2=C[N+](O)=CC=C2Formula  $C_{10}H_{14}N_2O$  M.Wt 178.2

Solubility DMF: 50 mg/mL, DMSO: 30 mg/mL, Ethanol: 50 mg/mL, PBS (pH 7.2): 1 mg/mL Storage Store at -20°C

General tips For obtaining a higher solubility, please warm the tube at 37 °C and shake it in the ultrasonic bath for a while. Stock solution can be stored below -20°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**

(2'S)-Nicotine-1-oxide is a metabolite of nicotine. 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.

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

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