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**Product Data Sheet**

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Product Name: (S)-O-Desmethyl Venlafaxine N-Oxide

Cat. No.: GC60419

**Chemical Properties**

Cas. No. 1021934-03-1

SMILES OC1=CC=C([C@H](C2(O)CCCCC2)C[N+](C)(C)[O-])C=C1Formula  $C_{16}H_{25}NO_3$  M.Wt 279.37

Solubility 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**

(S)-O-Desmethyl Venlafaxine N-Oxide is a N-oxide of (S)-O-Desmethyl Venlafaxine. O-Desmethyl Venlafaxine is an active metabolite of Venlafaxine[1]. Venlafaxine is an antidepressant of the serotonin-norepinephrine reuptake inhibitor (SNRI) class[2].

[1]. Lechoslaw A. Turski, et al. N-oxides de venlafaxine et de o-desméthylvenlafaxine comme médicaments. WO2009000797A1. [2]. Yijin Liu, et al. Development of an enantioselective assay for simultaneous separation of venlafaxine and O-desmethylvenlafaxine by micellar electrokinetic chromatography-tandem mass spectrometry: Application to the analysis of drug-drug interaction. J Chromatogr A. 2015 Nov 13;1420:119-28. [3]. F P Bymaste, et al. Comparative affinity of duloxetine and venlafaxine for serotonin and norepinephrine transporters in vitro and in vivo, human serotonin receptor subtypes, and other neuronal receptors. Neuropsychopharmacology. 2001 Dec;25(6):871-80.

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

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