PRODUCT INFORMATION

(±)-O-Desmethyl Venlafaxine
Item No. 9001881

CAS Registry No.: 93413-62-8
Formal Name: 4-[2-(dimethylamino)-1-(1-hydroxycyclohexyl)ethyl]-phenol
Synonyms: Desvenlafaxine, DVS 233, MDD-XR
MF: C₁₆H₂₅NO₂
FW: 263.4
Purity: ≥ 98%
UV/Vis.: λmax: 226, 275 nm
Supplied as: A crystalline solid
Storage: -20°C
Stability: ≥ 2 years

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

Laboratory Procedures

(±)-O-Desmethyl venlafaxine is supplied as a crystalline solid. A stock solution may be made by dissolving the (±)-O-desmethyl venlafaxine in the solvent of choice. (±)-O-Desmethyl venlafaxine is soluble in organic solvents such as ethanol, DMSO, and dimethyl formamide (DMF), which should be purged with an inert gas. The solubility of (±)-O-desmethyl venlafaxine in these solvents is approximately 0.10, 0.25, and 5 mg/ml, respectively.

(±)-O-Desmethyl venlafaxine is sparingly soluble in aqueous buffers. For maximum solubility in aqueous buffers, (±)-O-desmethyl venlafaxine should first be dissolved in DMF and then diluted with the aqueous buffer of choice. (±)-O-Desmethyl venlafaxine has a solubility of approximately 0.30 mg/ml in a 1:2 solution of DMF:PBS (pH 7.2) using this method. We do not recommend storing the aqueous solution for more than one day.

Description

(±)-O-Desmethyl venlafaxine is the active metabolite of venlafaxine (Item No. 11567), an inhibitor of the reuptake of both serotonin and norepinephrine.1-3 Venlafaxine is metabolized by cytochrome P450 2D6, yielding O-desmethyl venlafaxine, which is pharmacologically similar to the parent drug.4,5 (±)-O-Desmethyl venlafaxine inhibits the human serotonin and norepinephrine transporters with IC₅₀ values of 47.3 and 531.3 nM, respectively.6

References