Web: www.taiclone.com
Tel: +886-2-2735-9682
Email: order@taiclone.com

Desvenlafaxine

Catalog No: tcsc2818

Available Sizes

Size: 5mg

Size: 10mg

Specifications

CAS No:
93413-62-8

Formula:
$C_{16}H_{25}NO_2$

Pathway:
Neuronal Signaling

Target:
Serotonin Transporter

Purity / Grade:
>98%

Solubility:
10 mM in DMSO

Alternative Names:
O-Desmethylvenlafaxine

Observed Molecular Weight:
263.38

Product Description

Desvenlafaxine is a serotonin (5-HT) and norepinephrine (NE) reuptake inhibitor with Ki of 40.2 nM and 558.4 nM, respectively.

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Target: SSRIs

Desvenlafaxine is a serotonin-norepinephrine reuptake inhibitor and is the active metabolite of the antidepressant venlafaxine. Similar to venlafaxine, desvenlafaxine inhibits the neuronal uptake of serotonin and norepinephrine. Desvenlafaxine shows weak binding affinity (62% inhibition at 100 μM) at the human dopamine (DA) transporter. Desvenlafaxine inhibits [3H]5-HT or [3H]NE uptake for the hSERT or hNET with IC50 of 47.3 and 531.3 nM, respectively. Desvenlafaxine rapidly penetrates the male rat brain and hypothalamus. Desvenlafaxine significantly increases extracellular NE levels compared with baseline in the male rat hypothalamus but had no effect on DA levels using microdialysis [1]. Desvenlafaxine has the potential to inhibit CYP2D6, which could result in increased concentrations of drugs metabolized through this pathway. Induction of CYP3A4 is also possible with desvenlafaxine, which could impact the metabolism of drugs metabolized via this enzyme. Desvenlafaxine exhibits a linear and dose-proportional pharmacokinetic single-dose profile in a dose range from 100 to 600 mg/day. The absolute bioavailability of the oral formulation is 80.5% [2].