Web: www.taiclone.com
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Azilsartan (medoxomil monopotassium)

Catalog No: tcsc2153

Available Sizes

Size: 5mg

Size: 10mg

Size: 50mg

Size: 100mg

Specifications

CAS No:
863031-24-7

Formula:
$C_{30}H_{23}KN_4O_8$

Pathway:
GPCR/G Protein

Target:
Angiotensin Receptor

Purity / Grade:
>98%

Solubility:
10 mM in DMSO

Alternative Names:
Azilsartan kamedoxomil;TAK 491 monopotassium

Observed Molecular Weight:
606.62

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Product Description

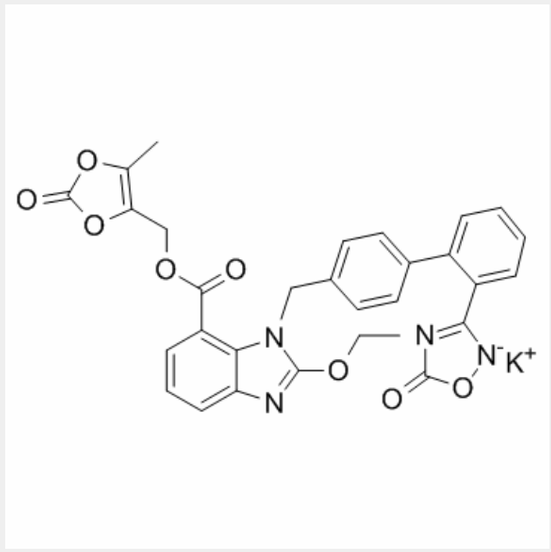
Azilsartan medoxomil(TAK 491) is an orally administered angiotensin II receptor type 1 antagonist with IC50 of 0.62 nM, which used in the treatment of adults with essential hypertension.

IC50 Value: 0.62 nM [2]

Target: AT1 receptor

in vitro: In aortic endothelial cells, azilsartan inhibited cell proliferation at concentrations as low as 1 μmol/l, whereas valsartan showed little or no antiproliferative effects at concentrations below 10 μmol/l. Antiproliferative effects of azilsartan were also observed in cells lacking AT1 receptors[1].

in vivo: Oral administration of 0.1-3 mg/kg olmesartan medoxomil reduced blood pressure; however, only the two highest doses significantly reduced blood pressure 24h after dosing. ED(25) values were 0.41 and 1.3 mg/kg for azilsartan medoxomil and olmesartan medoxomil, respectively [2]. Over a longer treatment period of 24 weeks, azilsartan medoxomil showed sustained BP-lowering efficacy, with the reduction in 24-hour mean SBP at week 24 significantly greater with azilsartan medoxomil 40 or 80 mg once daily than with valsartan 320 mg once daily. Mean reductions from baseline in mean clinic SBP and DBP as well as DBP by ABPM were also significantly greater with azilsartan medoxomil 40 or 80 mg once daily than with valsartan[3]. In 4 randomized controlled trials (3 published to date), azilsartan medoxomil/chlorthalidone 40 mg/12.5 mg and 40 mg/25 mg reduced blood pressure (BP) significantly more than comparators did, including an approximately 5-mm Hg greater BP reduction than olmesartan medoxomil/hydrochlorothiazide 40 mg/25 mg and azilsartan medoxomil/hydrochlorothiazide [4].



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