

Product Data Sheet

Product Name: Brefonalol hydrochloride

Cat. No.: GC79267

Chemical Properties

Cas. No. 3026677-28-8

Formula $C_{22}H_{29}ClN_2O_2$

M.Wt 388.93

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

Brefonalol (Brefanolol) hydrochloride is an orally active, non-selective β -adrenergic receptor blocker with vasodilatory properties. Brefonalol hydrochloride exhibits an optimal balance between β -blockade and vasodilatory effects at low doses: it reduces blood pressure and slows heart rate, while increasing stroke volume instead of decreasing it, causing no significant elevation in peripheral resistance and increasing reactive hyperemia; at high doses, the β -blockade effect dominates. Brefonalol hydrochloride can be used in the research of arterial hypertension [1].

In Vitro, Brefonalol hydrochloride exhibits balanced β -receptor blocking and vasodilatory effects at a

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

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dose of 50 mg, while at a dose of 100 mg, it primarily exerts β -receptor blocking effects^[1].

References:

[1]. Halabi A, et al. Hemodynamic effects of brefanolol and propranolol assessed by noninvasive methods in patients with arterial hypertension. J Cardiovasc Pharmacol. 1990;16(1):81-86.

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