

Product Data Sheet

Product Name: Esmolol HCl

Cat. No.: GC14968

Chemical Properties

Cas. No. 81161-17-3

Chemical Name methyl 3-[4-[2-hydroxy-3-(propan-2-ylamino)propoxy]phenyl]propanoate;hydrochloride

SMILES CC(C)NCC(COC1=CC=C(C=C1)CCC(=O)OC)O.Cl

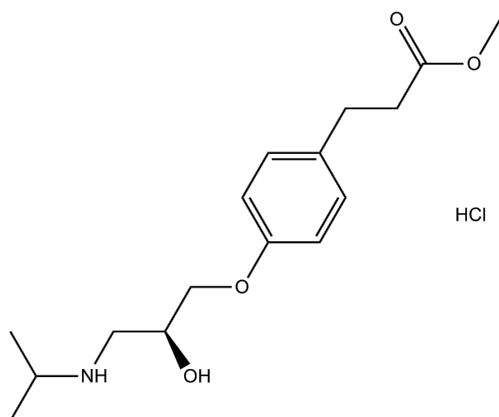
Formula $C_{16}H_{25}NO_4 \cdot HCl$ M.Wt 331.83

Solubility $\geq 16.6\text{mg/mL}$ in DMSO 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

Esmolol hydrochloride is a beta adrenergic receptor blocker.

Esmolol hydrochloride is the hydrochloride salt form of Esmolol, a short and rapid-acting beta adrenergic antagonist belonging to the class II anti-arrhythmic drugs and devoid of intrinsic sympathomimetic activity. Esmolol hydrochloride competitively blocks beta-1 adrenergic receptors in cardiac muscle and reduces the contractility and cardiac rate of heart muscle, thereby decreasing

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

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cardiac output and myocardial oxygen demands. This agent also decreases sympathetic output centrally and blocks renin secretion. At higher doses, Esmolol hydrochloride also blocks beta-2 receptors located in bronchial and vascular smooth muscle, thereby leading to smooth muscle relaxation.

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