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**Product Data Sheet**

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Product Name: Esmolol  
Cat. No.: GC25385

**Chemical Properties**

Cas. No. 81147-92-4

Formula C<sub>16</sub>H<sub>25</sub>NO<sub>4</sub>

M.Wt 295.37

Solubility DMSO: 59 mg/mL (199.75 mM);Water: 59 mg/mL (199.75 mM);Ethanol: 59 mg/mL (199.75 mM)

Store  
Storage 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 is a cardioselective beta1 receptor blocker with rapid onset, a very short duration of action, and no significant intrinsic sympathomimetic or membrane stabilising activity at therapeutic dosages.

Esmolol acts as a pharmacochaperone: Long term exposure of cells to esmolol raised the surface levels of  $\beta$ 1-adrenergic receptors[1].

[1] Nasrollahi-Shirazi S, et al. J Pharmacol Exp Ther. 2016, 359(1):73-81.

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

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