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

Etomidate (hydrochloride)

Catalog No: tcsc1834

Available Sizes

Size: 10mg

Size: 50mg

Size: 100mg

Size: 200mg

Size: 500mg

Specifications

CAS No:
53188-20-8

Formula:
$C_{14}H_{17}ClN_2O_2$

Pathway:
Neuronal Signaling;Membrane Transporter/Ion Channel

Target:
GABA Receptor;GABA Receptor

Purity / Grade:
>98%

Solubility:
10 mM in DMSO

Alternative Names:
R16659 hydrochloride

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Observed Molecular Weight:
280.75

Product Description

Etomidate Hcl(R16659 Hcl) is a GABAA receptors agonist, which is a short acting intravenous anaesthetic agent used for the induction of general anaesthesia.

Target: GABA Receptor

Etomidate is a potent inhibitor of the adrenal response to surgery. The absence of clinical consequences associated with the blunted response suggests that a major increase in adrenal hormone production may not be necessary during surgery [1]. Etomidate is an intravenous induction agent that is associated with hemodynamic stability during intubation. The agent is therefore attractive for use in critically ill patients who have a high risk of hemodynamic instability during this procedure [2]. Etomidate use was not associated with all cause 28-day mortality or hospital mortality but was associated with significantly higher ICU mortality (91% vs. 64% for etomidate and controls groups, respectively; p = 0.02). Etomidate patients who received subsequent doses of hydrocortisone required lower doses of vasopressors and had more vasopressor-free days but no improvement in mortality [3].

Clinical indications:

FDA Approved Date: 1983

Toxicity: Undesirable side effects of etomidate that may limit its use include pain on injection, myoclonus and adrenocortical suppression lasting 4-6 hours following an induction dose.