

Product Name: Etomidate Revision Date: 02/24/2023

Product Data Sheet

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Etomidate

Cat. No.:	A1958
CAS No.:	33125-97-2
Formula:	C14H16N2O2
M.Wt:	244.29
Synonyms:	
Target:	Neuroscience
Pathway:	GABA Receptor
Storage:	Store at -20°C

Solvent & Solubility

	insoluble in H2O; ≥	≥12.212 mg/mL in DMSO; ≥16.87 mg/mL in EtOH				
In Vitro	Preparing	Mass Solvent Concentration	1mg	5mg	10mg	
	Stock Solutions	1 mM	4.0935 mL	20.4675 mL	40.9350 mL	
	-10-	5 mM	0.8187 mL	4.0935 mL	8.1870 mL	
	Being Operation	10 mM	0.4093 mL	2.0467 mL	4.0935 mL	

Please refer to the solubility information to select the appropriate solvent.

Biological Activity

Shortsummary

General anesthetic with GABA modulatory and GABA-mimetic actions

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In Vitro

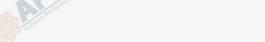
Cell Viability Assay		Engle -		
	Cell Line;	human embryonic kidney (HEK293) cells (with high expression levels of the		
		cloned murine 2A-adrenoceptor , α 2C-adrenoceptor and α 2B -adrenoceptor		
		subtypes)		
	Preparation method:	The solubility of this compound in DMSO is >12.2mg/mL. General tips for		
		obtaining a higher concentration: Please warm the tube at 37°C for 10 minutes		
		and/or shake it in the ultrasonic bath for a while. Stock solution can be stored		

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		below -20°C for several months.
	Reacting conditions:	10µM for 20 min
Application	Applications:	In membranes from HEK293 cells transfected with α 2-receptors, etomidated and the transfected with the transfected set of the transfect
	÷0.	inhibited binding of the α 2-antagonist, [3H]RX821002, with higher potency from
	Brown	α 2B- and α 2C-receptors than from α 2A-receptors.Etomidate activate
	P Lands	mitogen-activated protein kinase phosphorylation via $lpha 2B$ -receptors.
		α 2B-receptor–expressing HEK293 cells, stimulated with 10 μ M etomidate for 2
		min rapidly increased phosphorylation of the extracellular signal-relate
		kinases ERK1/2.
	Animal experiment	
	Animal models:	α 2Adrenoceptor-deficient Mice, $\alpha 2Bdrenoceptor-deficient Mice$
Dosage form: Applications:	Dosage form:	intraperitoneal injection ,5–50 mg/kg body weight
	Applications:	These results showed that 27% of the mice lost the reflex at 10 mg/k
		etomidate and all mice transiently lost the righting reflex at 20mg/kg and high
	Bue Unicount	etomidate doses. After injection of etomidate at 30 mg/kg, the righting refle
ı Vivo		disappeared in wild-type and $lpha 2$ A-deficient mice at similar times aft
		intraperitoneal injection. On intravenous injection of etomidate at 30 mg/k
 Oth		wild-type mice showed a rapid and transient hypertensive response that wa
		completely absent in mice lacking α2B-receptors.
	Other notes:	Please test the solubility of all compounds indoor, and the actual solubility ma
		slightly differ with the theoretical value. This is caused by an experiment
		system error and it is normal.
Produc	t Citations	
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References

[1]. Paris A, Philipp M, Tonner PH., et al. Activation of alpha 2B-adrenoceptors mediates the cardiovascular effects of etomidate. Anesthesiology. 2003 Oct;99(4):889-95.



FOR RESEARCH PURPOSES ONLY.

NOT FOR HUMAN, VETERINARY DIAGNOSTIC OR THERAPEUTIC USE.

Specific storage and handling information for each product is indicated on the product datasheet. Most APExBIO products are stable

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under the recommended conditions. Products are sometimes shipped at a temperature that differs from the recommended storage temperature. Shortterm storage of many products are stable in the short-term at temperatures that differ from that required for long-term storage. We ensure that the product is shipped under conditions that will maintain the quality of the reagents. Upon receipt of the product, follow the storage recommendations on the product data sheet.





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