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DATASHEET

Etomidate

Product overview

Name	Etomidate
Cat No	HB0937
Biological action	PAM
Purity	>99%
Description	Potent GABA _A receptor positive allosteric modulator

Images



Biological Data

Biological description	Potent GABA _A receptor positive allosteric modulator. Selective for $\beta 2$ and $\beta 3$ subunits (EC_{50} values are 0.6, 0.7 and 7.4 μM for $\alpha 6\beta 2\gamma 2$, $\alpha 6\beta 3\gamma 2$ and $\alpha 6\beta 1\gamma 2$ GABA _A receptor subtypes respectively). Shows short acting hypnotic actions. Blood-brain barrier permeable.
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Solubility & Handling

Storage instructions	Room temperature
Solubility overview	Soluble in ethanol (100mM) and in 1M HCl (50mM)
Important	This product is for RESEARCH USE ONLY and is not intended for therapeutic or diagnostic use. Not for human or veterinary use.

Chemical Data

Chemical name	(R)-1-(1-Phenylethyl)-1H-imidazole-5-carboxylic acid ethyl ester
Molecular Weight	244.29
Chemical structure	
Molecular Formula	C ₁₄ H ₁₆ N ₂ O ₂
CAS Number	33125-97-2
PubChem identifier	36339
SMILES	CCOC(=O)C1=CN=CN1C(C)C2=CC=CC=C2

InChi
InChiKey
MDL number

InChI=1S/C14H16N2O2/c1-3-18-14(17)13-9-15-10-16(13)11(2)12-7-5-4-6-8-12/h4-11H,3H2,1-2H3
NPUKDXXFDDZOKR-UHFFFAOYSA-N
MFCD00869295

References

Distinct actions of etomidate and propofol at beta3-containing gamma-aminobutyric acid type A receptors.

Drexler B *et al* (2009) *Neuropharmacology* 57(4)

PubMedID [19555700](#)

Etomidate and other non-barbiturates.

Vanlersberghe C *et al* (2008) *Handb Exp Pharmacol* -182

PubMedID [18175096](#)

The interaction of the general anesthetic etomidate with the gamma-aminobutyric acid type A receptor is influenced by a single amino acid.

Belelli D *et al* (1997) *Proc Natl Acad Sci U S A* 94(20)

PubMedID [9380754](#)
