Bemegride

Cat. No.: HY-B1326

CAS No.: 64-65-3

Molecular Formula: $C_8H_{13}NO_2$

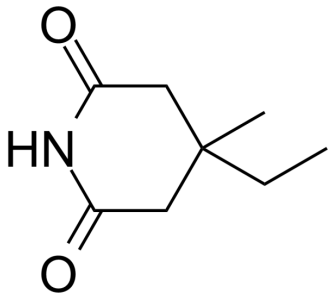
Molecular Weight: 155.19

Target: GABA Receptor

Pathway: Membrane Transporter/Ion Channel; Neuronal Signaling

Storage:

Powder	-20°C	3 years
	4°C	2 years
In solvent	-80°C	2 years
	-20°C	1 year



SOLVENT & SOLUBILITY

In Vitro

DMSO : ≥ 32 mg/mL (206.20 mM)

* "≥" means soluble, but saturation unknown.

Preparing Stock Solutions

Solvent / Mass / Concentration	1 mg	5 mg	10 mg
1 mM	6.4437 mL	32.2186 mL	64.4371 mL
5 mM	1.2887 mL	6.4437 mL	12.8874 mL
10 mM	0.6444 mL	3.2219 mL	6.4437 mL

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

BIOLOGICAL ACTIVITY

Description

Bemegride (3-Ethyl-3-methylglutarimide) is a central nervous system stimulant and antidote for barbiturate poisoning[1][2].

IC_{50} & Target

GABAA receptor[1]

In Vitro

Bemegride has an antagonistic action on the GABAA receptor, suppressing both GABA- and pentobarbitone-evoked whole-cell currents to similar extents. [1] Long-term oral administration to the rat of barbitone, alone or together with the analeptics bemegride or pentylenetetrazol, show that the intensity of the withdrawal syndrome generally parallels the degree of associated CNS depression[2].

MCE has not independently confirmed the accuracy of these methods. They are for reference only.

REFERENCES

[1]. Mistry DK, et al. Actions of steroids and bemegride on the GABAA receptor of mouse spinal neurones in culture.Exp Physiol, 1990, 75(2),199-209.

[2]. Arblaster CI, et al. Studies on the development of physical dependence on barbitone in the rat and rat atrium. Farmaco Sci. 1986 Jan, 41(1), 3-22.

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