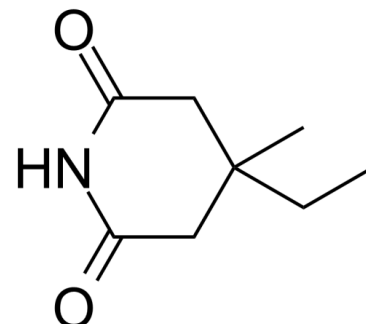


Data Sheet

Product Name:	Bemegride
Cat. No.:	CS-4896
CAS No.:	64-65-3
Molecular Formula:	C ₈ H ₁₃ NO ₂
Molecular Weight:	155.19
Target:	GABA Receptor
Pathway:	Membrane Transporter/Ion Channel; Neuronal Signaling
Solubility:	DMSO : ≥ 32 mg/mL (206.20 mM)



BIOLOGICAL ACTIVITY:

Bemegride is a central nervous system stimulant and antidote for barbiturate poisoning. target: GABAA receptor 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]

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.

CAIndexNames:

2,6-Piperidinedione, 4-ethyl-4-methyl-

SMILES:

O=C(CC(C)(CC)C1)NC1=O

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

Tel: 732-484-9848 Fax: 888-484-5008 E-mail: sales@ChemScene.com

Address: 1 Deer Park Dr, Suite Q, Monmouth Junction, NJ 08852, USA