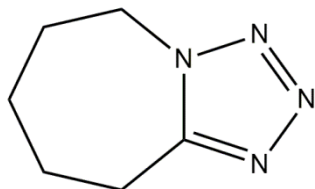


Pentylentetrazole

ALTERNATE NAMES: Pentetrazol; 1,5-Pentamethylenetetrazole; Metrazole; 6,7,8,9-tetrahydro-5H-tetrazolo[1,5-a]azepine; Corazol; Cardiazol; Deumacard; 7,8,9,10-Tetrazabicyclo(5.3.0)-8,10-decadiene; PTZ

CATALOG #: B3090-1G 1 g
B3090-5G 5 g

STRUCTURE:



MOLECULAR FORMULA: C₆H₁₀N₄

MOLECULAR WEIGHT: 138.17

CAS NUMBER: 54-95-5

APPEARANCE: White to off-white powder

PURITY: ≥ 98%

SOLUBILITY: ~3 mg/ml in PBS, pH 7.2
~14 mg/ml in DMSO, DMF and ethanol

DESCRIPTION: Pentylentetrazole is a circulatory and respiratory stimulant. It is a central nervous system modulator used to experimentally induce seizures in animals. It acts as an antagonist of GABA_A receptors at IC₅₀ values of 0.6-2.2 mM.

STORAGE TEMPERATURE: -20 °C. Protect from air. Store under desiccating conditions.

HANDLING: Do not take internally. Wear gloves and mask when handling the product! Avoid contact by all modes of exposure.

REFERENCES:

1. Huang, R.Q., Bell-Horner, C.L., Dibas, I.M., et al. Pentylentetrazole-induced inhibition of recombinant gamma-aminobutyric acid type A (GABA(A)) receptors: Mechanism and site of action. *J. Pharmacol. Exp. Ther.* 298, 986–995 (2001).
2. Löscher, W. Critical review of current animal models of seizures and epilepsy used in the discovery and development of new antiepileptic drugs. *Seizure* 20(5), 359-368 (2011).

RELATED PRODUCTS:

JNJ-47965567 (Cat. No. B2972)
Vigabatrin (Cat. No. B2983)
Chlorpromazine Hydrochloride (Cat. No. B1992)
U-93631 (Cat. No. B1851)
Riluzole (Cat. No. B3068)

DISCLAIMER: ***FOR RESEARCH USE ONLY! Not to be used on humans.***