

Product Data Sheet

Product Name: Gidazepam

Cat. No.: GC69161

Chemical Properties

Cas. No. 129186-29-4

Formula $\text{C}_{17}\text{H}_{15}\text{BrN}_4\text{O}_2$

M.Wt 387.23

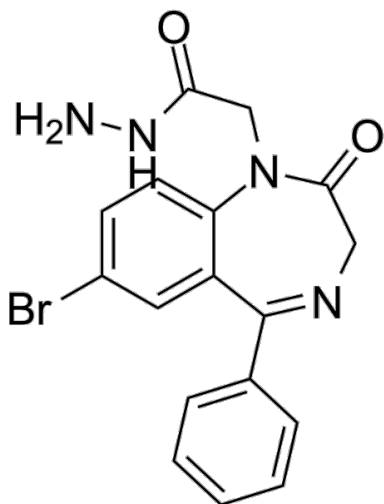
Solubility DMSO : 120 mg/mL(Need ultrasonic)

Storage Store at -20°C

General tips	For obtaining a higher solubility , please warm the tube at 37 °C and shake it in the ultrasonic bath for a while. Stock solution can be stored below -20°C for several months.
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Shipping Condition	Evaluation sample solution : ship with blue ice All other available size: ship with RT , or blue ice upon request.
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Structure



Protocol

Cell experiment [1]:

Cell lines	Hepatocyte

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

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Preparation Method	20μM Gidazepam was incubated with Hepatocyte for 3 hours, and metabolites were analyzed by LC-HRMS afterward.
Reaction Conditions	20μM; 3 hours
Applications	Gidazepam can promote cells to produce metabolites like hydroxylation and O-glucuronidation.
Animal experiment [2]:	
Animal models	Adult male albino outbred rats
Preparation Method	Rats were intraperitoneally administered a single dose of Gidazepam (10mg/kg) 20 minutes before behavioral test sessions in a two-lever water-reinforced operant drug discrimination procedure. After acquisition of stimulus control, generalization and antagonism tests were performed.
Dosage form	10mg/kg; i.p.; single injection
Applications	Gidazepam can help rats develop lever discrimination responses in two-lever water-reinforced operant discrimination training.
References:[1] Gameli P S, Kutzler J, Minnelli C, et al. Insights into the human metabolism and in silico receptor activity of gidazepam and desalkylgidazepam. Arch Toxicol. 2026;100(4):959-78.[2] Kalinina T S, Garibova T L, Voronina T A. Discriminative effects of phenazepam and gidazepam in rats: comparison with other GABA-related drugs. Pharmacol Biochem Behav. 1999;64(2):397-401.	

Background

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Gidazepam is a benzodiazepine GABA-A receptor agonist. Gidazepam binds to 18kDa translocator protein TSPO to promote neurosteroid synthesis and modulates serotonin, dopamine, and norepinephrine systems, exerting anxiolytic, anti-asthenic, autonomic regulatory, and pro-cognitive effects. Gidazepam is used in research on anxiety disorders, alcohol withdrawal, migraine, and preoperative sedation^[1-4].

In vitro, incubation of hepatocytes with 20μM Gidazepam for 3h promoted hydroxylated and O-glucuronidated metabolite production in hepatocytes^[5].

In vivo, a single intraperitoneal injection of 10mg/kg Gidazepam to albino outbred rats promoted lever discrimination response establishment in rats during two-lever water-reinforced operant discrimination training^[6]. A single intraperitoneal injection of 1.5-14.0mg/kg Gidazepam to seizure mouse models attenuated clonic-tonic seizures and tonic extension in mice^[7].

References:

- [1] Maskell PD, Wilson G, Manchester KR. Designer Benzodiazepines Gidazepam and Desalkylgidazepam (Bromonordiazepam): What Do We Know? J Anal Toxicol. 2023 Apr 14;47(4):324-331.
- [2] Zhuk OV, Zinkovski VG, Golovenko NY, et al. Biokinetics of gidazepam, derivatives of peptideaminobenzophenones and their metabolites. Exp Toxicol Pathol. 1999 Jul;51(4-5):451-4.
- [3] Zarubina V, Holst L, Engebretsen IMS. The trends in the use of psychopharmacological medications in Ukraine 2010-2022. BMC Psychiatry. 2026 Jan 23;26(1):170.
- [4] Nesterkina M, Kravchenko I. Synthesis and pharmacological properties of novel esters based on monocyclic terpenes and GABA. Pharmaceuticals. 2016 Jun 13;9(2):32.
- [5] Gameli P S, Kutzler J, Minnelli C, et al. Insights into the human metabolism and in silico receptor activity of gidazepam and desalkylgidazepam. Arch Toxicol. 2026;100(4):959-78.
- [6] Kalinina T S, Garibova T L, Voronina T A. Discriminative effects of phenazepam and gidazepam in rats: comparison with other GABA-related drugs. Pharmacol Biochem Behav. 1999;64(2):397-401.
- [7] Golovenko N Y, Larionov V B. Pharmacodynamical and neuroreceptor analysis of the permeability of the blood-brain barrier for derivatives of 1,4-benzodiazepine. Neurophysiology. 2014 Jun;46(3):199-205.

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