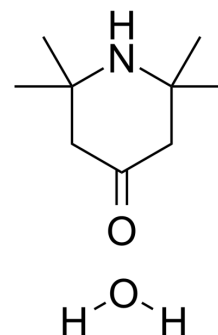


Triacetoneamine monohydrate

Cat. No.:	HY-N1131B
CAS No.:	10581-38-1
Molecular Formula:	C ₉ H ₁₉ NO ₂
Molecular Weight:	173.25
Target:	Biochemical Assay Reagents
Pathway:	Others
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



BIOLOGICAL ACTIVITY

Description	Triacetoneamine (2,2,6,6-Tetramethyl-4-piperidone) monohydrate is used as an intermediate for the synthesis of pharmaceutical products, pesticides and photostabilizers for polymers. Triacetoneamine hydrochloride has oral activity and can induce acute liver failure (ALF) in rats ^{[1][2]} .								
In Vivo	<p>Triacetoneamine (Purchased from MCE; 200 mg, 300 mg, 400 mg/Kg/day; gavage; 2 days) monohydrate shows typical hepatoenteropathy of ALF with 300 mg/Kg/day and 400 mg/Kg/day, while the group of 400 mg/Kg/day had higher mortality^[2].</p> <p>MCE has not independently confirmed the accuracy of these methods. They are for reference only.</p> <table border="1"> <tr> <td>Animal Model:</td> <td>Rats (half male and female, 6-8 weeks old, 200 ± 10 g)^[2]</td> </tr> <tr> <td>Dosage:</td> <td>200 mg, 300 mg, 400 mg/Kg</td> </tr> <tr> <td>Administration:</td> <td>Gavage; daily; 2 days</td> </tr> <tr> <td>Result:</td> <td>Showed typical hepatoenteropathy of ALF with 300 mg/Kg/day and 400 mg/Kg/day, while the group of 400 mg/Kg/day had higher mortality.</td> </tr> </table>	Animal Model:	Rats (half male and female, 6-8 weeks old, 200 ± 10 g) ^[2]	Dosage:	200 mg, 300 mg, 400 mg/Kg	Administration:	Gavage; daily; 2 days	Result:	Showed typical hepatoenteropathy of ALF with 300 mg/Kg/day and 400 mg/Kg/day, while the group of 400 mg/Kg/day had higher mortality.
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CUSTOMER VALIDATION

- J Tissue Eng Regen Med. 2022 Feb 5.

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REFERENCES

[1]. Cao JP, et al. Triacetoneamine formation in a bio-oil from fast pyrolysis of sewage sludge using acetone as the absorption solvent. Bioresour Technol. 2010 Jun;101(11):4242-5.

[2]. Ting Jiang, et al. Application of Bone Marrow Mesenchymal Stem Cells Effectively Eliminates Endotoxemia to Protect Rat from Acute Liver Failure Induced by Thioacetamide. Tissue Eng Regen Med. 2022 Apr;19(2):403-415.

[3]. Cao JP, et al. Triacetonamine formation in a bio-oil from fast pyrolysis of sewage sludge using acetone as the absorption solvent. Bioresour Technol. 2010;101(11):4242-4245.

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

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