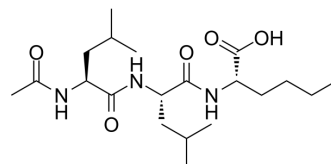


Ac-Leu-Leu-Norleucinol

Cat. No.:	HY-P3690
CAS No.:	148333-42-0
Molecular Formula:	C ₂₀ H ₃₇ N ₃ O ₅
Molecular Weight:	399.52
Target:	Proteasome
Pathway:	Metabolic Enzyme/Protease
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



BIOLOGICAL ACTIVITY

Description	Ac-Leu-Leu-Norleucinol (ALLN) is a calpain inhibitor, can be used for research of Acetaminophen (HY-66005) induced acute liver damage, and lowers glutamic-oxalacetic transaminase (ALT) and glutamic-pyruvic transaminase (AST) ^[1] .								
IC₅₀ & Target	Calpain ^[1]								
In Vivo	<p>Ac-Leu-Leu-Norleucinol (10 mg/kg, 20 mg/kg; i.p.; single dose) effectively prevents Acetaminophen (HY-66005)-induced acute liver injury in mice model^[1].</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>Acute liver injury model induced by Acetaminophen (APAP) in C57BL/6 mice (18-22 g)^[1]</td> </tr> <tr> <td>Dosage:</td> <td>10 mg/kg, 20 mg/kg; accompanied with 300 mg/kg APAP (i.p.)</td> </tr> <tr> <td>Administration:</td> <td>Intraperitoneal injection; collected tissue samples 24 hr after</td> </tr> <tr> <td>Result:</td> <td>Significantly reduced APAP-induced stem cell necrosis and lowered the level of glutamic-oxalacetic transaminase (ALT) and glutamic-pyruvic transaminase (AST). Injection alone did not cause pathological changes in the liver.</td> </tr> </table>	Animal Model:	Acute liver injury model induced by Acetaminophen (APAP) in C57BL/6 mice (18-22 g) ^[1]	Dosage:	10 mg/kg, 20 mg/kg; accompanied with 300 mg/kg APAP (i.p.)	Administration:	Intraperitoneal injection; collected tissue samples 24 hr after	Result:	Significantly reduced APAP-induced stem cell necrosis and lowered the level of glutamic-oxalacetic transaminase (ALT) and glutamic-pyruvic transaminase (AST). Injection alone did not cause pathological changes in the liver.
Animal Model:	Acute liver injury model induced by Acetaminophen (APAP) in C57BL/6 mice (18-22 g) ^[1]								
Dosage:	10 mg/kg, 20 mg/kg; accompanied with 300 mg/kg APAP (i.p.)								
Administration:	Intraperitoneal injection; collected tissue samples 24 hr after								
Result:	Significantly reduced APAP-induced stem cell necrosis and lowered the level of glutamic-oxalacetic transaminase (ALT) and glutamic-pyruvic transaminase (AST). Injection alone did not cause pathological changes in the liver.								

REFERENCES

[1]. Song Fuyong, et al. Application of calpain inhibitor ALLN in preventing and treating acetaminophen induced acute liver damage: China, CN108939046[P]. 2018-12-07.

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

Tel: 609-228-6898

Fax: 609-228-5909

E-mail: tech@MedChemExpress.com

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