Ulinastatin

MedChemExpress

| Cat. No.: | HY-134616 |
|-----------|---|
| CAS No.: | 80449-31-6 |
| Target: | Ser/Thr Protease; Apoptosis |
| Pathway: | Metabolic Enzyme/Protease; Apoptosis |
| Storage: | -20°C, protect from light |
| | * In solvent : -80°C, 6 months; -20°C, 1 month (protect from light) |

SOLVENT & SOLUBILITY

In Vitro H₂O : 10 mg/mL (Need ultrasonic) DMSO : 1 mg/mL (Need ultrasonic)

| Description | Ulinastatin (Uristatin) is a trypsin and serine protease inhibitor. Ulinastatin is the main protein binding inhibitor of various trypsin, chymotrypsin, and various pancreatic proteases. Ulinastatin shows neuroprotective, anti-inflammatory, anti-apoptotic, anti-oxidant effects ^{[1][2]} . | | |
|-------------|--|---|--|
| In Vitro | Ulinastatin (500-5000 U; 24 cells ^[1] . MCE has not independently Western Blot Analysis ^[1] Cell Line: Concentration: Incubation Time: Result: | hours) markedly attenuates TLR4 expression and NF-κB activation in LPS-stimulated BEAS-2B confirmed the accuracy of these methods. They are for reference only. Human lung epithelial BEAS-2B cells 500 U, 2500 U, 5000 U 24 hours Markedly attenuated TLR4 expression and NF-κB activation in LPS-stimulated BEAS-2B cells. | |
| In Vivo | Ulinastatin (10000 U/kg; i.v. lung wet/dry weight ratio, A content, factors associated MCE has not independently Animal Model: Dosage: | Jlinastatin (10000 U/kg; i.v.; twice) significantly protects animals from LPS-induced acute lung injury (ALI), decreasing the ung wet/dry weight ratio, ALI score, total cells, neutrophils, macrophages, myeloperoxidase activity, and malondialdehyc :ontent, factors associated with lung histological damage ^[1] . MCE has not independently confirmed the accuracy of these methods. They are for reference only. Animal Model: Male C57BL/6 mice (8-10 weeks old, 18-22 g) ^[1] Dosage: 10000 U/kg | |

Product Data Sheet

Ulinastatin

| Administration | ive twice (1 h hefere and 6 h ofter LPS treatment) |
|-----------------|--|
| Auministration: | I.v.; twice (1 if before and 6 if after LPS treatment) |
| Result: | Significantly protected animals from LPS-induced ALI. |

REFERENCES

[1]. Shangping Fang, et al. Research progress of ulinastatin in the treatment of liver diseases. Int J Clin Exp Pathol. 2020 Nov 1;13(11):2720-2726.

[2]. Cao C, et al. Ulinastatin Protects Against LPS-Induced Acute Lung Injury By Attenuating TLR4/NF-κB Pathway Activation and Reducing Inflammatory Mediators. Shock. 2018 Nov;50(5):595-605.

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

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