

IU1, USP-14 inhibitor

Catalog	Unit
TBI1197-10MG	10 mg
TBI1197-50MG	50 mg

Product Details

Formal Name: 1-[1-(4-Fluorophenyl)-2,5-dimethyl-1H-pyrrol-3-yl]-2-(1-pyrrolidinyl)ethanone

Molecular Formula: C₁₈H₂₁FN₂O

Formula Weight: 300.38

CAS Number: 314245-33-5

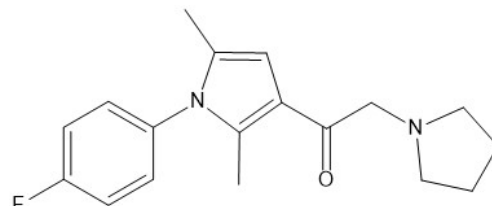
Purity: >98%

Formulation: powder

Solubility: Soluble in DMSO (up to 30 mg/ml) or in Ethanol (up to 15 mg/ml).

Storage: -20°C

Stability: ≥ 2 years.



Applications

USP-14 inhibitor

Functions

Selective inhibitor of Usp14 (IC₅₀<4 μM). Enhances proteasome activity and substrate proteolysis. Inhibits Dengue virus replication. In prion-infected CAD5 cells activation of the ubiquitin proteasome system by IU1 is sufficient to induce clearance of polyubiquitinated substrates and reduce misfolded prion protein load. Attenuates ischemia/reperfusion-induced neuronal injury in a mouse model. Cell permeable.

Application Procedures

First dissolved in DMSO (up to 30 mg/ml) or in Ethanol (up to 15 mg/ml), then diluted to aqueous buffer. Solutions in DMSO or Ethanol may be stored at -20°C for up to 1 month.

For research use only.