



SZABO SCANDIC

Part of Europa Biosite

Produktinformation



Forschungsprodukte & Biochemikalien



Zellkultur & Verbrauchsmaterial



Diagnostik & molekulare Diagnostik



Laborgeräte & Service

Weitere Information auf den folgenden Seiten!
See the following pages for more information!



Lieferung & Zahlungsart

siehe unsere [Liefer- und Versandbedingungen](#)

Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

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IU1

Catalog #: 27227

Lot #: 120628

Size: 10 mg

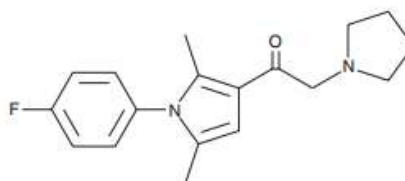
CAS Registry #: 314245-33-5

Purity: ≥98%

Chemical Formula: C₁₈H₂₁FN₂O

Molecular Weight: 300.4

Structure:



Description: IU1 inhibits USP14 in a reversible manner resulting in increasing proteasome activity. It selectively stimulates ubiquitin-dependent protein degradation *in vitro* at 34 μM and in MEF cells at 50 μM. IU1 can also reduce accumulation of oxidized proteins in HEK293 cells, which alleviates cytotoxicity induced by oxidative stress.

Appearance: A crystalline solid

Solubility: Soluble in DMSO, DMF and ethanol purged with an inert gas. Solubility is approximately 20 mg/ml in DMSO, DMF and ethanol. For maximum solubility, dissolve in DMF, then dilute with aqueous buffer of choice. Do not store aqueous solutions for more than one day.

Biological Activity: IU1 inhibits deubiquitination by USP14, demonstrating an IC₅₀ value of 4-5 μM.

Storage/Stability: Store at or below -20°C for up to two years.

Quality Control: The purity was determined by HPLC analysis.

Reference(s):

1. Lee, B.H., *et al.*, *Nature* 2010;**467**:179-184.