

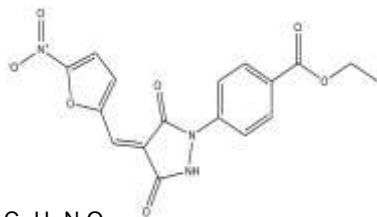
PYR-41

ALTERNATE NAME: 4-[4-[(5-Nitro-2-furanyl)methylene]-3,5-dioxo-1-pyrazolidinyl]benzoic acid ethyl ester

CATALOG #: 1925-5, 25

AMOUNT: 5 mg, 25 mg

STRUCTURE:



MOLECULAR FORMULA: C₁₇H₁₃N₃O₇

MOLECULAR WEIGHT: 371.30

CAS NUMBER: 418805-02-4

APPEARANCE: Brown solid

SOLUBILITY: DMSO (~25 mg/ml)

PURITY: ≥98% by TLC

STORAGE: Store at -20 °C. Protect from light

DESCRIPTION: Cell-permeable. An irreversible ubiquitin-activating enzyme (E1) inhibitor (IC₅₀ < 10 μM). Blocks ubiquitylation and prevents ubiquitin-mediated proteasomal degradation. Inhibits NF-κB activation, blocks degradation of p53, increases p21 levels and induces apoptosis *in vitro*. Also causes an increase in sumoylation of proteins.

REFERENCE: Fonseca, B.D., *et al.* (2011). *J. Biol. Chem.* **286**, 27111-27122; Sapkota, G.P., *et al.* (2007). *Biochem. J.* **410** (Pt1), 29-38.

HANDLING: Do not take internally. Wear gloves and mask when handling the product! Avoid contact by all modes of exposure.

FOR RESEARCH USE ONLY! Not to be used on humans.

RELATED PRODUCTS:

- Calpain Inhibitor I, ALLN (**Cat. No. 1834-5, 25**)
- Calpain Inhibitor II, ALLM (**Cat. No. 1834-5, 25**)
- Clasto-Lactacystin β-Lactone (**Cat. No. 1710-100**)
- E6AP Antibody (**Cat. No. 3744-100**)
- (-)-Epigallocatechin gallate (**Cat. No. 1841-50**)
- Isopeptidase T (short form), human recombinant (**Cat. No. 4861-25**)
- Isopeptidase T (long form), human recombinant (**Cat. No. 4862-25**)
- Lactacystin (**Cat. No. 1709-200**)
- MG-115 (**Cat. No. 1831-1, 5**)
- MG-132 (**Cat. No. 1703-5, 25**)
- PS-341 (**Cat. No. 1846-1,5**)
- EZSolution™ MG-132 (**Cat. No. 1791-5**)
- NEDD8-AMC (**Cat. No. 4843-25**)
- Proteasome Substrate, Fluorogenic (**Cat. No. 1832-1, 5**)
- Suc-Leu-Leu-Val-Tyr-AMC (**Cat. No. 1833-5**)
- Ubch1, human recombinant (GST-tag) (**Cat. No. 4846-100**)
- Ubch2, human recombinant (His-tag) (**Cat. No. 4848-100**)
- Ubch3, human recombinant (His-tag) (**Cat. No. 4849-100**)
- Ubch5a, human recombinant (His-tag) (**Cat. No. 4851-100**)
- Ubch5b, human recombinant (His-tag) (**Cat. No. 4852-100**)
- Ubch5c, human recombinant (His-tag) (**Cat. No. 4854-100**)
- Ubiquitin Aldehyde (**Cat. No. 4845-50**)
- Ubiquitin, human recombinant (**Cat. No. 4841-100,1000**)
- Ubiquitin AMC (**Cat. No. 4842-25**)
- UCH-L1, human recombinant (GST-tag) (**Cat. No. 4855-50**)
- USP7 Antibody (**Cat. No. 3737-100**)
- USP-14 Inhibitor IU1 (**Cat. No. 1845-5, 25**)