

Product Name: EN6

Catalog No.: 7474

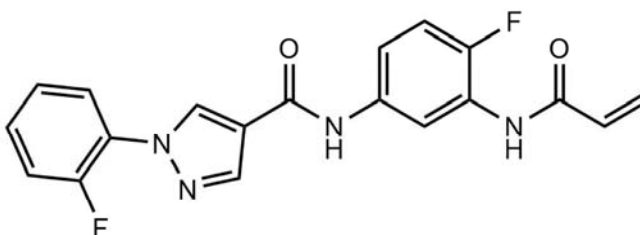
Batch No.: 1

CAS Number: 1808714-73-9

IUPAC Name: *N*-[4-Fluoro-3-[(1-oxo-2-propen-1-yl)amino]phenyl]-1-(2-fluorophenyl)-1*H*-pyrazole-4-carboxamide

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: C₁₉H₁₄F₂N₄O₂.
Batch Molecular Weight: 368.34
Physical Appearance: White solid
Solubility: DMSO to 10 mM
Storage: Store at -20°C
Batch Molecular Structure:



2. ANALYTICAL DATA

HPLC: Shows 98.7% purity
¹H NMR: Consistent with structure
Mass Spectrum: Consistent with structure

Microanalysis:

	Carbon	Hydrogen	Nitrogen
Theoretical	61.96	3.83	15.21
Found	61.9	3.8	15.28

Caution - Not Fully Tested • Research Use Only • Not For Human or Veterinary Use

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Description:

EN6 is an activator of lysosomal vacuolar H⁺ ATPase (v-ATPase). EN6 covalently binds to the catalytic subunit of v-ATPase leading to increased acidification of lysosomes, inactivation of mTORC1 signaling and activation of autophagy in vivo. EN6 triggers entosis and promotes clearance of TDP43 protein aggregates in vitro.

Physical and Chemical Properties:

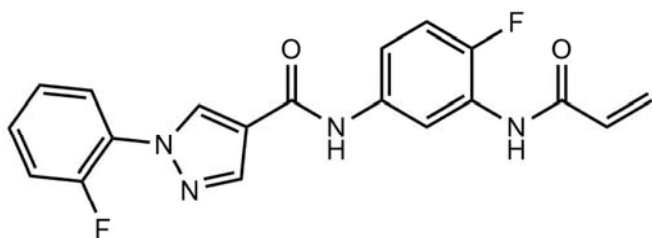
Batch Molecular Formula: C₁₉H₁₄F₂N₄O₂.

Batch Molecular Weight: 368.34

Physical Appearance: White solid

Minimum Purity: ≥98%

Batch Molecular Structure:



Storage: Store at -20°C

Solubility & Usage Info:

DMSO to 10 mM

Stability and Solubility Advice:

Some solutions can be difficult to obtain and can be encouraged by rapid stirring, sonication or gentle warming (in a 45-60°C water bath).

Information concerning product stability, particularly in solution, has rarely been reported and in most cases we can only offer a general guide. Our standard recommendations are:

SOLIDS: Provided storage is as stated on the product label and the vial is kept tightly sealed, the product can be stored for up to 6 months from date of receipt.

SOLUTIONS: We recommend that stock solutions, once prepared, are stored aliquoted in tightly sealed vials at -20°C or below and used within 1 month. Wherever possible solutions should be made up and used on the same day.

References:

Su et al (2021) Role and dynamics of vacuolar pH during cell-in-cell mediated death. *Cell Death Dis.* **12**. PMID: 33483474.

Chung et al (2019) Covalent targeting of the vacuolar H⁺-ATPase activates autophagy via mTORC1 inhibition. *Nat.Chem.Biol.* **15** 776. PMID: 31285595.

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