

**Product Name:** Ceapin A7

**Catalog No.:** 6955

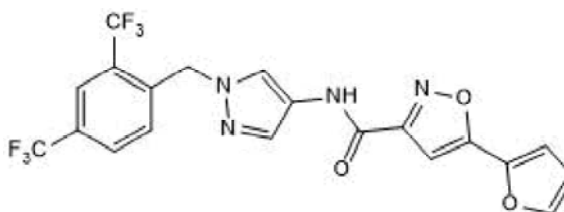
**Batch No.:** 1

CAS Number: 2323027-38-7

IUPAC Name: *N*-[1-[[2,4-bis(Trifluoromethyl)phenyl]methyl]-1*H*-pyrazol-4-yl]-5-(2-furanyl)-3-isoxazolecarboxamide

**1. PHYSICAL AND CHEMICAL PROPERTIES**

**Batch Molecular Formula:** C<sub>20</sub>H<sub>12</sub>F<sub>6</sub>N<sub>4</sub>O<sub>3</sub>.  
**Batch Molecular Weight:** 470.33  
**Physical Appearance:** White solid  
**Solubility:** DMSO to 100 mM  
 ethanol to 10 mM  
**Storage:** Store at -20°C  
**Batch Molecular Structure:**



**2. ANALYTICAL DATA**

**HPLC:** Shows 99.7% purity  
**<sup>1</sup>H NMR:** Consistent with structure  
**Mass Spectrum:** Consistent with structure  
**Microanalysis:**

	Carbon	Hydrogen	Nitrogen
Theoretical	51.07	2.57	11.91
Found	51.04	2.57	11.81

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

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**Description:**

Ceapin A7 is a selective inhibitor of ATF6 $\alpha$  (IC<sub>50</sub>=0.59  $\mu$ M). The compound selectively inhibits ATF6 $\alpha$  over ATF6 $\beta$  and other branches of the unfolded protein response (UPR). Ceapin A7 inhibits ER stress-induced upregulation of BiP in vitro. Ceapin A7 inhibits cleavage and functional activation of endogenous ATF6 in response to ER stress in vitro.

**Physical and Chemical Properties:**

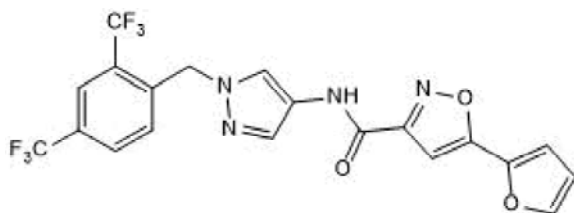
Batch Molecular Formula: C<sub>20</sub>H<sub>12</sub>F<sub>6</sub>N<sub>4</sub>O<sub>3</sub>.

Batch Molecular Weight: 470.33

Physical Appearance: White solid

**Minimum Purity:**  $\geq$ 98%

**Batch Molecular Structure:**



**References:**

**Gallagher *et al*** (2016) Ceapins are a new class of unfolded protein response inhibitors, selectively targeting the ATF6 $\alpha$  branch. *eLife*. PMID: 27435960.

**Gallagher and Walter** (2016) Ceapins inhibit ATF6 $\alpha$  signaling by selectively preventing transport of ATF6 $\alpha$  to the Golgi apparatus during ER stress. *eLife*. PMID: 27435962.

**Storage:** Store at -20°C

**Solubility & Usage Info:**

DMSO to 100 mM

ethanol 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.

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