



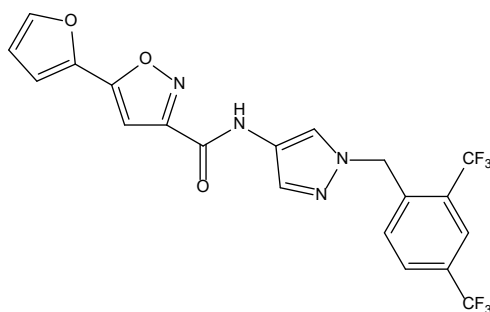
Catalog # 10-3974

Ceapin-A7

CAS# 2323027-38-7

N-(1-([2,4-bis(Trifluoromethyl)phenyl]methyl)-1H-pyrazol-4-yl)-5-(furan-2-yl)-1,2-oxazole-3-carboxamide

Lot # FBA7152



Ceapin-A7 (2323027-38-7) is a selective inhibitor ($IC_{50} = 590$ nM) of transcription factor ATF6 α , one of the three branches of the unfolded protein response.¹ It inhibits activation of ATF6 α in response to ER stress without inhibiting ER-bound transcription factors ATF6 β or SREBP or the IRE1 or PERK branches of the UPR. Ceapin-A7 also show no toxicity to unstressed cells. It induces neomorphic association of the ER and peroxisomes by directly tethering the cytosolic domain of ATF6 α to the peroxisomal transporter ABCD3 without inhibiting its transporter activity.²

References:

- 1) Gallagher *et al.* (2016), *Ceapins are a new class of unfolded protein response inhibitors, selectively targeting the ATF6 α branch*; eLife **5** e11878
- 2) Torres *et al.* (2019), *Ceapins block the unfolded protein response sensor ATF6a by inducing a neomorphic inter-organelle tether*; eLife **8** e46595

PHYSICAL DATA

Molecular Weight:	470.33
Molecular Formula:	C ₂₀ H ₁₂ F ₆ N ₄ O ₃
Purity:	>98% by HPLC
	NMR: (Conforms)
Solubility:	DMSO (>25 mg/ml)
Physical Description:	White solid
Storage and Stability:	Store as supplied at -20°C for up to 1 year from the date of purchase. Solutions in DMSO may be stored at -20°C for up to 3 months.

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