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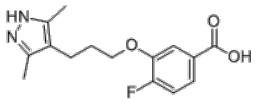
Data Sheet

Global Supplier of Chemical Probes, Inhibitors & Agonists.

Product Name	:	Acoramidis
Cat. No.	:	PC-49857
CAS No.	:	1446711-81-4
Molecular Formula	:	$C_{15}H_{17}FN_2O_3$
Molecular Weight	:	292.31
Target	:	Other Targets
Solubility	:	10 mM in DMSO



Biological Activity

Acoramidis (AG10) is a potent and selective kinetic stabilizer and ligand of **transthyretin** (TTR) ligand with apparent binding constant (Kapp) of 193 nM for WT-TTR.
AG10 binds TTR with negative cooperativity (Kd1 = 4.8 nM, Kd2 = 314 nM), V122I-TTR with Kd1 of 6.2 ± 2.0 nM and a Kd2 of 139 ± 80 nM.
AG10 is a highly effective and selective stabilizer of WT and V122I-TTR.
AG10 also prevents the dissociation of V122I-TTR in serum obtained from patients with FAC and protects human cardiomyocytes from TTR amyloid toxicity very effectively.
AG10 binds V122I-TTR with high affinity and to kinetically stabilize the tetramer, G10 is significantly better than tafamidis in inhibiting the amyloidogenesis of WT and V122I-TTR.
AG10 prevents dissociation of V122I-TTR in serum samples obtained from patients with familial amyloid cardiomyopathy.
AG10 stabilizes V122I- and WT-TTR equally well and also exceeds their efficacy to stabilize WT and mutant TTR in whole serum.

References

Sravan C Penchala, et al. ***Proc Natl Acad Sci U S A.*** 2013 Jun 11;110(24):9992-7.

Sravan C Penchala , et al. ***Nat Chem Biol.*** 2015 Oct;11(10):793-8.

E-mail: tech@probechem.com