Product Data Sheet

Acoramidis

Cat. No.: HY-109165

CAS No.: 1446711-81-4

Molecular Formula: C₁₅H₁₇FN₂O₃

Molecular Weight: 292.31

Target: Transthyretin (TTR)
Pathway: Neuronal Signaling

Storage: Please store the product under the recommended conditions in the Certificate of

Analysis.

BIOLOGICAL ACTIVITY

DescriptionAcoramidis (AG10) is an orally active and selective kinetic stabilizer of WT and V122I-TTR (transthyretin). Acoramidis (AG10) is used in the study for transthyretin amyloidosis^{[1][2]}.

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In Vitro

Accoramidis (AG10, 0.1-10 µM for TTR, -5 µM) stabilizes V122I- and WT-TTR equally well and also exceeds their efficacy to Caution: Product has not been fully validated for medical applications. For research use only.

stabilize WT and mutant TTR in whole serum [1].

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MCE has not independently confirmed the accuracy of these methods. They are for reference only.

Western Blot Analysis^[1].

Cell Line:	Human serum (TTR ⊠5 μM).
Concentration:	0.1 and 10 μM.
Incubation Time:	72 h.
Result:	Was significantly more effective than tafamidis in stabilizing TTR. The concentration of AG10 to 10 μ M resulted in stabilization of almost all of TTR in serum.

REFERENCES

[1]. Sravan C Penchala, et al. AG10 inhibits amyloidogenesis and cellular toxicity of the familial amyloid cardiomyopathy-associated V122I transthyretin. Proc Natl Acad Sci U S A. 2013 Jun 11;110(24):9992-7.

[2]. Jonathan C Fox, et al. First-in-Human Study of AG10, a Novel, Oral, Specific, Selective, and Potent Transthyretin Stabilizer for the Treatment of Transthyretin Amyloidosis: A Phase 1 Safety, Tolerability, Pharmacokinetic, and Pharmacodynamic Study in Healthy Adult Volunteers. Clin Pharmacol Drug Dev. 2020 Jan;9(1):115-129.

[3]. Stephen P Soltoff, et al. Evidence that tyrphostins AG10 and AG18 are mitochondrial uncouplers that alter phosphorylation-dependent cell signaling. J Biol Chem. 2004 Mar 19;279(12):10910-8.

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