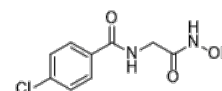


Product Name : Benurestat
Cat. No. : PC-23749
CAS No. : 38274-54-3
Molecular Formula : C₉H₉ClN₂O₃
Molecular Weight : 228.63
Target : Bacterial
Solubility : 10 mM in DMSO



CAS: 38274-54-3

Biological Activity

Benurestat is a reversible competitive inhibitor of gut bacterial **urease**, inhibits ammonia production by urease-encoding gut bacteria, inhibits urease activity in mouse fecal suspensions ex vivo with IC₅₀ of 2.5 μM.

Benurestat inhibits saw ammonia production in cultured *P. mirabilis* with IC₅₀ of 69.9 μM.

Benurestat treatment reduces fecal and serum ammonia levels in mice, also rescues mice from otherwise lethal acute liver injury.

References

Richards-Corke KC, et al. *ACS Chem Biol.* 2025 Jan 8. doi: 10.1021/acscchembio.3c00556.

Caution: Product has not been fully validated for medical applications. Lab Use Only!

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