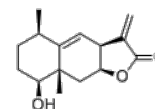


Product Name : IJ-5
Cat. No. : PC-60355
CAS No. : 68776-47-6
Molecular Formula : C₁₅H₂₀O₃
Molecular Weight : 248.322
Target : Ubiquitin-activating Enzyme (E1)
Solubility : 10 mM in DMSO



Biological Activity

IJ-5 (1beta-Hydroxyalantanolactone) is a potent, covalent inhibitor of ubiquitin-conjugating enzyme **UbcH5** with K_d of 5.189 uM, 3.578 uM, and 2.577 uM for UbcH5a, UbcH5b, and UbcH5c, respectively.

IJ-5 shows weak affinity for Ubc13 (K_d=13.37 uM); inhibits TNFα-induced NF-κB pathway activation and inflammatory gene expression in 293T cells.

IJ-5 exhibits potent anti-inflammatory activity against TNF-α- and D-galactosamine-induced hepatitis and collagen-induced arthritis in preclinical models.

References

Liu L, et al. *Chem Biol.* 2014 Oct 23;21(10):1341-50.

Chen H, et al. *J Med Chem.* 2017 Jul 11. doi: 10.1021/acs.jmedchem.6b01829.

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

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