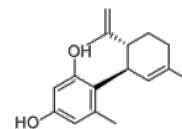


Product Name : O-1602
Cat. No. : PC-35196
CAS No. : 317321-41-8
Molecular Formula : C₁₇H₂₂O₂
Molecular Weight : 258.36
Target : GPR55
Solubility : 10 mM in DMSO



Biological Activity

O-1602 (O1602) is an atypical cannabinoid, potent and selective agonist of **GPR55** cannabinoid receptor with EC₅₀ of 13 nM, shows no significant activity for CB1 and CB2 receptors (EC₅₀>30 uM).

O-1602 stimulates GPR55-dependent GTPgammaS activity with EC₅₀ of <2 nM.

O-1602 inhibits mouse osteoclast formation in vitro, stimulates mouse and human osteoclast polarization and resorption in vitro and caused activation of Rho and ERK1/2, affects bone mass in vivo.

O-1602 protects against experimental colitis and inhibits neutrophil recruitment.

References

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Schuelert N, et al. *Neurosci Lett.* 2011 Aug 1;500(1):72-6.

Schicho R, et al. *Inflamm Bowel Dis.* 2011 Aug;17(8):1651-64.

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

E-mail: tech@probechem.com