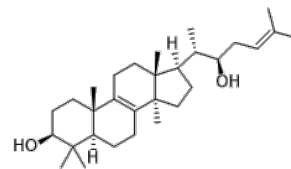


Product Name : Inotodiol
Cat. No. : PC-23926
CAS No. : 35963-37-2
Molecular Formula : C₃₀H₅₀O₂
Molecular Weight : 442.73
Target : Liver X Receptor (LXR)
Solubility : 10 mM in DMSO



Biological Activity

Inotodiol (CE9A215) is a lanostane-type triterpenoid compound isolated from the sclerotia of *Inonotus obliquus*, a selective LXR β agonist with EC₅₀ of <10 nM, shows potent anti-allergic and anti-inflammatory effects.

Inotodiol (CE9A215) shows no significant activation observed for LXR α at concentrations up to 1000 nM.

Inotodiol (CE9A215) crosses the blood-brain barrier and accumulates in the brain.

Inotodiol (CE9A215) modulated the expression of ABCA1, APOE, SREBP-1c and AQP4 in the brains of wild-type and LXR α/β knockout mice in LXR β -dependent manner.

Inotodiol (CE9A215) exerted both prophylactic and therapeutic effects on AD-associated behaviors and pathologies, including reductions in amyloid- β , phosphorylated tau, and neuroinflammation in the hippocampus in AD-related pathologies of 3xTg-AD mice.

References

Ban SY, et al. *Biomed Pharmacother.* 2025 Feb 6;184:117895.

Nakata T, et al. *Bioorg Med Chem.* 2007;15(1):257-264.

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

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