ZK159222

Cat. No.: HY-12397
CAS No.: 156965-15-0
Molecular Formula: C₃₂H₄₈O₅
Molecular Weight: 512.72
Target: VD/VDR
Pathway: Vitamin D Related
Storage: Please store the product under the recommended conditions in the COA.

BIOLOGICAL ACTIVITY

Description
ZK159222, a 25-carboxylic ester analogue of 1α,25-(OH)2D3, is a potent 1α,25-(OH)2D3 receptor (VDR) antagonist. The mechanism of ZK159222 antagonistic action is mediated by a lack of ligand-induced vitamin D receptor interaction with coactivators. ZK159222 has a partial agonistic character[1].

In Vitro
ZK159222, displayed the profile of a weak VDR agonists that requires an approximate 7-fold higher concentration than of the natural hormone 1α,25-(OH)2D3 to stabilize VDR-RXR heterodimer complex formation on a DR3-type VDRE. ZK159222 was found to belong to the category of 1α,25-(OH)2D3 analogues that stabilize an additional third functional VDR conformation, which has also been described for some agonistic 20-epi analogues. The remaining reporter gene activity that was obtained by a combined treatment of 10 nM 1α,25-(OH)2D3 with 1 μM ZK159222 is close to the partial agonistic activity of 1 μM ZK159222[1].

REFERENCES


Caution: Product has not been fully validated for medical applications. For research use only.
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