ZK159222

Cat. No.: HY-12397
CAS No.: 156965-15-0
Molecular Formula: C\textsubscript{32}H\textsubscript{48}O\textsubscript{5}
Molecular Weight: 512.72
Target: VD/VDR
Pathway: Vitamin D Related
Storage: Please store the product under the recommended conditions in the Certificate of Analysis.

**BIOLOGICAL ACTIVITY**

**Description**
ZK159222, a 25-carboxylic ester analogue of 1\(\alpha\),25-(OH)\textsubscript{2}D\textsubscript{3}, is a potent 1\(\alpha\),25-(OH)\textsubscript{2}D\textsubscript{3} 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\textsuperscript{[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 1\(\alpha\),25-(OH)\textsubscript{2}D\textsubscript{3} to stabilize VDR-RXR heterodimer complex formation on a DR3-type VDRE. ZK159222 was found to belong to the category of 1\(\alpha\),25-(OH)\textsubscript{2}D\textsubscript{3} 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 1\(\alpha\),25-(OH)\textsubscript{2}D\textsubscript{3} with 1 \(\mu\)M ZK159222 is close to the partial agonistic activity of 1 \(\mu\)M ZK159222\textsuperscript{[1]}. 

MCE has not independently confirmed the accuracy of these methods. They are for reference only.

**REFERENCES**


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

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