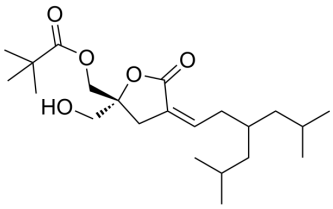
JH-131e-153

Cat. No.:	HY-149489
CAS No.:	742104-91-2
Molecular Formula:	$C_{22}H_{38}O_5$
Molecular Weight:	382.53
Target:	Others
Pathway:	Others
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



BIOLOGICAL ACTIVITY

Description	JH-131e-153, a diacylglycerol (DAG)-lactone, is a small molecule activator of Munc13-1, targeting the C1 domain. The activation sequence of JH-131e-153 on Munc13-1 is WT>I590≈R592A≈W588A. The C1 domain of Munc13-1 and protein kinase C (PKC) are homologous in sequence and structure. The activation sequence of JH-131e-153 on Munc13-1 and PKC was PKC α>Munc13-1>PKCε. JH-131e-153 regulates neuronal processes through Munc13-1 and can be further used in the study of neurodegenerative diseases[1].
IC_{50} & Target	Munc13-1 C1 domain[1]
In Vitro	Munc13-1 is a target of the diacylglycerol second messenger pathway and plays a role in vesicle maturation during exocytosis. Participates in neurotransmitter release by acting on synaptic vesicle initiation prior to vesicle fusion, and participates in activity-dependent refilling of the easy-release vesicle pool (RRP). MCE has not independently confirmed the accuracy of these methods. They are for reference only.

REFERENCES

[1]. Das J, et al. Activation of Munc13-1 by Diacylglycerol (DAG)-Lactones. Biochemistry. 2023 Aug 31.

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