UMB68 sodium

Cat. No.: HY-135034

CAS No.: 581099-89-0

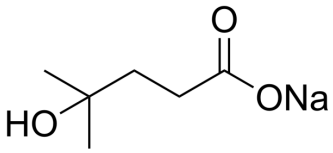
Molecular Formula: $C_6H_{11}NaO_3$

Molecular Weight: 154.14

Target: GABA Receptor

Pathway: Membrane Transporter/Ion Channel; Neuronal Signaling

Storage: Please store the product under the recommended conditions in the Certificate of Analysis.



BIOLOGICAL ACTIVITY

Description	UMB68 sodium is a selective GHB receptor ligand. UMB68 sodium displaces [^{3}H]NCS-382 with an IC_{50} of 38 nM in rat cerebrocortical membranes. UMB68 sodium has no significant affinity at GABAB receptors, cannot be metabolized to GABA-active compounds[1].
IC_{50} & Target	GHB receptor[1]
In Vitro	UMB68 inhibits [^{3}H]NCS382 (16 nM) binding to the rat cerebrocortical membranes, with an IC_{50} of 38 nM compared with 25 μM for GHB[1]. UMB68 shows no affinity (IC_{50} >100 μM) at GABA(A) or GABA(B) receptors[1]. MCE has not independently confirmed the accuracy of these methods. They are for reference only.
In Vivo	UMB68 (320-1778 mg/kg; i.p.) decreases markedly lever pressing in rats[1]. MCE has not independently confirmed the accuracy of these methods. They are for reference only.

Animal Model:	Adult male Sprague-Dawley rats (250-300 g) are carried out discrimination training[1]
Dosage:	320, 660, 1000, 1778 mg/kg
Administration:	I.p. injection
Result:	Caused vehicle-lever responding up to a dose (1778 mg/kg) that decreased markedly or eliminated lever pressing.

REFERENCES

[1]. Wu H, et, al. A tertiary alcohol analog of gamma-hydroxybutyric acid as a specific gamma-hydroxybutyric acid receptor ligand. J Pharmacol Exp Ther. 2003 May;305(2):675-9.

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

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