

mGluR1 activator-1

Chemical Properties

CAS No. :

Formula:

Molecular Weight:

Storage: Powder: -20°C for 3 years | In solvent: -80°C for 1 year

Actual storage temperature shall be subject to the COA.

Biological Description

Description	mGluR1 activator-1 is a stable vitamin K analog and mGluR1 activator capable of crossing the blood-brain barrier. It strongly activates transcription through steroid and xenobiotic receptors and retinoic acid receptors, effectively inducing neurogenesis in neural progenitor cells in mice. mGluR1 activator-1 is applicable in studying neurodegenerative diseases, such as Alzheimer's.
Targets(IC50)	Others,GluR
In vitro	mGluR1 activator-1 (Compound 7) at concentrations of 1-10 μ M over 48 hours modulates transcriptional activity through SXR and RAR in neural stem cells. At 1 μ M for 48 hours, it significantly increases Map2 positive signaling, indicating effective induction of neural progenitor cells into neurons. Furthermore, mGluR1 activator-1 (1-10 μ M) enhances cellular uptake in MG63 cells in a concentration-dependent manner within 24 hours and is subsequently converted into the bioactive form Menaquinone-4 (MK-4).
In vivo	Compound 7, known as mGluR1 activator-1, when administered orally at a concentration of 10 μ mol/mL (single dose), enters the brain of C57BL6J mice more rapidly than MK-4 and subsequently converts to MK-4 within 24 hours post-administration.

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