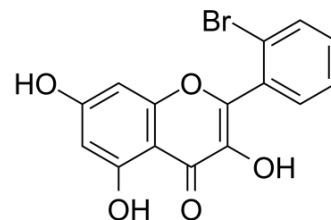


AM12

Cat. No.:	HY-128561
CAS No.:	2387510-84-9
Molecular Formula:	C ₁₅ H ₉ BrO ₅
Molecular Weight:	349.13
Target:	TRP Channel
Pathway:	Membrane Transporter/Ion Channel; Neuronal Signaling
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



BIOLOGICAL ACTIVITY

Description	AM12 inhibits Lanthanide-evoked TRPC5 activity with an IC ₅₀ of 0.28 μM ^[1] .
IC ₅₀ & Target	IC ₅₀ : 0.28 μM (TRPC5) ^[1]
In Vitro	<p>AM12 also inhibits TRPC5 activity evoked by the agonist (-)-Englerin A^[1].</p> <p>AM12 also inhibits TRPC4 channels similarly. AM12 inhibits TRPC5 and TRPC4 channels via a site accessible from the extracellular face of the membrane, acting directly on either the channel or a site closely associated with it^[1].</p> <p>AM12 also inhibits Ca²⁺ entry evoked by Gd³⁺. AM12 inhibits the Gd³⁺-evoked Ca²⁺ signal with an IC₅₀ of 0.28 μM. AM12 is slightly more potent than the natural product Galangin as an inhibitor of the Gd³⁺-evoked signal^[1].</p> <p>MCE has not independently confirmed the accuracy of these methods. They are for reference only.</p>

REFERENCES

[1]. Naylor J, et al. Natural and synthetic flavonoid modulation of TRPC5 channels. Br J Pharmacol. 2016 Feb;173(3):562-74.

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

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