

Dendrotoxin-I TFA

Chemical Properties

CAS No. :

Formula:

Molecular Weight:

Storage: Keep away from moisture
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	Dendrotoxin-I (DTX-I) TFA is an effective blocker of K ⁺ channels, displaying IC ₅₀ values of 0.13-50 nM against voltage-gated potassium channel subunits KV1.1, KV1.2, and KV1.6. This neurotoxin also holds potential for use in cancer research.
Targets(IC ₅₀)	Potassium Channel
In vivo	Dendrotoxin-I (5 mg/kg;) TFA, when combined with hyperthermia, demonstrated notable inhibition of tumor growth. In an animal model using nude mice implanted with MCF-7 cells [3], the compound was administered intravenously at a dosage of 5 mg/kg. Initially, it exhibited significant effects in suppressing tumor growth, although it failed to maintain this inhibitory effect in the later stages of the treatment.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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