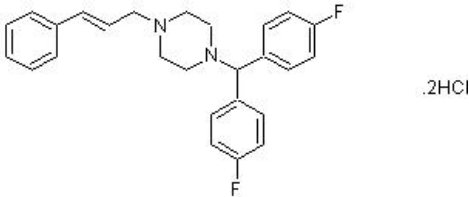


Product datasheet

Flunarizine dihydrochloride, dual Na⁺/Ca²⁺ channel blocker ab141798

1 Image

Overview

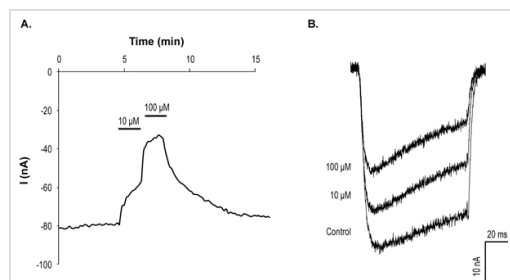
Product name	Flunarizine dihydrochloride, dual Na ⁺ /Ca ²⁺ channel blocker
Description	Potent dual Na ⁺ /Ca ²⁺ channel blocker
Biological description	Potent dual Na ⁺ /Ca ²⁺ channel blocker (IC ₅₀ values are 0.4 and 2.2 μM for Na ⁺ and voltage-gated T-type Ca ²⁺ channels respectively). Shows vasodilatory and neuroprotective effects <i>in vivo</i> . Orally active.
Purity	> 99%
CAS Number	30484-77-6
Chemical structure	

Properties

Chemical name	1-[Bis(4-fluorophenyl)methyl]-4-[(E)-3-phenylprop-2-enyl]piperazine dihydrochloride
Molecular weight	477.40
Molecular formula	C ₂₆ H ₂₆ F ₂ N ₂ .2HCl
PubChem identifier	5282407
Storage instructions	Store at -20°C. Store under desiccating conditions. The product can be stored for up to 12 months.
Solubility overview	Soluble in ethanol to 5 mM and in DMSO to 50 mM
Handling	<p>Wherever possible, you should prepare and use solutions on the same day. However, if you need to make up stock solutions in advance, we recommend that you store the solution as aliquots in tightly sealed vials at -20°C. Generally, these will be useable for up to one month. Before use, and prior to opening the vial we recommend that you allow your product to equilibrate to room temperature for at least 1 hour.</p> <p>Need more advice on solubility, usage and handling? Please visit our frequently asked questions (FAQ) page for more details.</p>

SMILESC1CN(CCN1CC=CC2=CC=CC=C2)C(C3=CC=C(C=C3)F)C4=CC=C(C=C4)F.Cl.Cl**Source**

Synthetic

Images

Functional Studies - Flunarizine dihydrochloride, dual Na⁺/Ca²⁺ channel blocker (ab141798)

Flunarizine dihydrochloride blocks L-type Ca²⁺ currents in *Xenopus* oocytes.

A. Time course of L-type channel (CaV1.2+α2d1+β1a) activity before and during applications of 10 and 100 μM Flunarizine dihydrochloride (ab141798) and upon wash. Holding potential was -100 mV and currents were elicited every 10 seconds by 100 ms steps to 0 mV. Periods of compound application are indicated by the horizontal bars. B. Example of superimposed current traces before and during application of 10 and 100 μM Flunarizine dihydrochloride (taken from the experiment described in A).

Please note: All products are "FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC PROCEDURES, NOT FOR USE IN HUMANS"

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