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Molecular Tools for the Life Science Community

Certificate of Analysis

β -Dendrotoxin

Cat. #: D-360

Origin: *Dendroaspis angusticeps* (Eastern green mamba)¹.

Source description: Natural peptide^{1,2}.

M.W.: ~ 7000 daltons.

Purity: >98%.

Effective concentration: 10-500 nM.

Sequence: Not determined.

CAS No.: Not determined.

Activity: β -Dendrotoxin inhibits 4-AP sensitive, inactivating voltage-gated potassium channels ($K_v1.1$, $K_v1.2$ and $K_v1.6$).

Bioassay: β -Dendrotoxin Inhibits cloned $K_v1.1$ and $K_v1.2$ channel currents heterologously expressed in *Xenopus* oocytes.

Sizes: 35 μ g or 5 x 35 μ g lyophilized powder.

Storage before reconstitution: Lyophilized powder can be stored intact at room temperature for several weeks. For longer periods, it should be stored at -20°C.

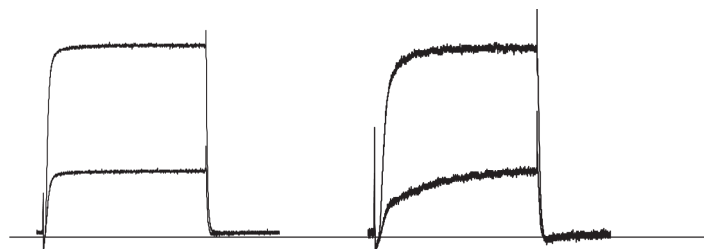
Reconstitution: Any aqueous buffer. Centrifuge all product preparations before use (10000 x g 5 min).

Concentration after reconstitution: Dissolving 35 μ g in 1 ml gives a stock solution of 5 μ M.

Storage and stability after reconstitution: Up to four weeks at 4°C or three months at -20°C.

References:

1. Benishan, O. *Cellular (1988) and Pharmacol.* **34**, 152.
2. Harvey, A.L. and Anderson, A.J. (1985) *Pharmacol. Ther.* **31**, 33.



$K_v1.1$ (left, in 2 mM K^+) and $K_v1.2$ (right, in 5 mM K^+) channel currents, elicited by 200 ms depolarization from holding potential of -100 mV to +20 mV, before and during application of 100 nM β -Dendrotoxin (#B-360). 62% ($n = 4$) of the $K_v1.1$ and 74% ($n = 4$) of the $K_v1.2$ channels were inhibited by 100 nM β -Dendrotoxin, respectively.

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