

Product Information



Charybdotoxin (trifluoroacetate salt)

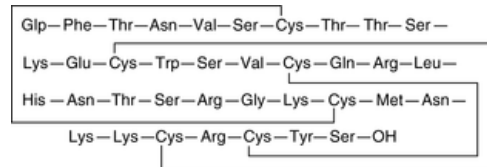
Cat No: 24115 - 100 µg

General Data

Shipping: dry ice

Formulation: A lyophilized powder

Purity: ≥95%



Product Overview

Charybdotoxin is a peptide originally isolated from the scorpion *L. quinquemaculatus* that acts as a potassium channel blocker.^{{39444}, {39445}} It blocks large-conductance Ca²⁺-activated K⁺ channels (BKCa) in GH3 rat pituitary tumor cells and primary bovine aortic smooth muscle cells (K_ds = 2.1 and ~2.1 nM, respectively).^{39445} Charybdotoxin selectively blocks voltage-gated potassium (Kv) channels Kv1.2 and Kv1.3 over Kv1.1, Kv1.5, and Kv3.1 (K_ds = 14, 2.6, >1,000, >100, >1,000 nM, respectively).^{39446} It also blocks human large-conductance pH-activated potassium channel KCa5.1 (Slo3) by 47% at a concentration of 100 nM and pH of 7.4, and human intermediate-conductance Ca²⁺-activated K⁺ channel IKCa1/KCa3.1 (K_d = 10 nM).^{{39447}, {39448}}

FP/04/24

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