

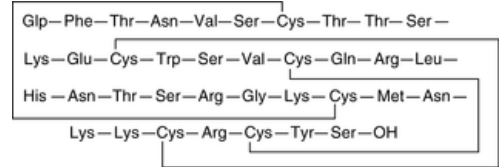


Charybdotoxin (trifluoroacetate salt)

Cat No: 24115 - 100 µg

General Data

Shipping:	dry ice
Formulation:	A lyophilized powder
Purity:	≥95%



• XCF₃COOH

Product Overview

Charybdotoxin is a peptide originally isolated from the scorpion *L. quinquestratus* 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 (K_v) channels K_v1.2 and K_v1.3 over K_v1.1, K_v1.5, and K_v3.1 (K_ds = 14, 2.6, >1,000, >100, >1,000 nM, respectively).^{39446} It also blocks human large-conductance pH-activated potassium channel K_{Ca}5.1 (Slo3) by 47% at a concentration of 100 nM and pH of 7.4, and human intermediate-conductance Ca²⁺-activated K⁺ channel IK_{Ca}1/K_{Ca}3.1 (K_d = 10 nM).^{39447},^{39448}

FP/22/24

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