



## Charybdotoxin (trifluoroacetate salt)

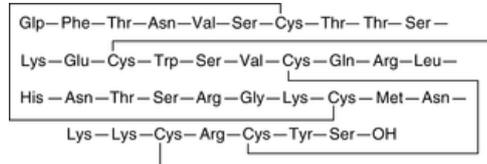
Cat No: 24115 - 100 µg

### General Data

**Shipping:** dry ice

**Formulation:** A lyophilized powder

**Purity:** ≥95%



• XCF<sub>3</sub>COOH

### Product Overview

Charybdotoxin is a peptide originally isolated from the scorpion *L. quinquestratus* that acts as a potassium channel blocker.<sup>{39444}</sup>,<sup>{39445}</sup> It blocks large-conductance Ca<sup>2+</sup>-activated K<sup>+</sup> channels (BKCa) in GH3 rat pituitary tumor cells and primary bovine aortic smooth muscle cells (K<sub>d</sub>s = 2.1 and ~2.1 nM, respectively).<sup>{39445}</sup> Charybdotoxin selectively blocks voltage-gated potassium (K<sub>v</sub>) channels K<sub>v</sub>1.2 and K<sub>v</sub>1.3 over K<sub>v</sub>1.1, K<sub>v</sub>1.5, and K<sub>v</sub>3.1 (K<sub>d</sub>s = 14, 2.6, >1,000, >100, >1,000 nM, respectively).<sup>{39446}</sup> 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 Ca<sup>2+</sup>-activated K<sup>+</sup> channel IKCa1/KCa3.1 (K<sub>d</sub> = 10 nM).<sup>{39447}</sup>,<sup>{39448}</sup>

FP/04/24

For research laboratory use only – Not for human diagnostic use.

Buyers agree to purchase the material subject to Purchasing Terms that can be found on our website. Seek appropriate training to safely handle this product under normal conditions. Use the recommended personal protective equipment to prevent chemical exposures.

Bertin Bioreagent does not make any other warranty or representation whatsoever whether expressed or implied, with respect to these products. In no event will Bertin Bioreagent be liable for incidental, consequential or punitive damages.

Contact Bertin Bioreagent

Parc d'Activités du Pas du Lac  
10 bis avenue Ampère  
78180 Montigny le Bretonneux - France  
Tel.: +33 (0)139 306 036

<https://www.bertin-bioreagent.com/pa206/contact-us>  
<https://www.bertin-bioreagent.com>