Hello Bio, Inc.
304 Wall St., Princeton, NJ 08540 USA

T. 609-683-7500
F. 609-228-4994

customercare-usa@m2stage.hellobio.com

DATASHEET

Charybdotoxin

Product overview

Name	Charybdotoxin
Cat No	HB1052
Alternative names	ChTx
Biological action	Inhibitor
Description	Potent, selective K_{Ca} channel inhibitor

Images

Biological Data

Biological description	Potent and selective K_{Ca} channel inhibitor (K_d = 3.5 nM). Displays high affinity for K_v1.3. Also a homotetrameric F425H channel blocker (K_d = 48 nM). Found in venom of the Leiurus quinquestriatus hebraeus scorpion.

Solubility & Handling

Storage instructions	-20°C (desiccate)
Solubility overview	Soluble in water (1mg/ml)
Important	This product is for RESEARCH USE ONLY and is not intended for therapeutic or diagnostic use. Not for human or veterinary use.

Chemical Data

Molecular Weight	4295.95
Chemical structure	
Molecular Formula	$C_{176}H_{277}N_{57}O_{55}S_7$
CAS Number	95751-30-7
PubChem identifier	102594130
SMILES	[H]N1[C@@H](CCC1=O)C(=O)N[C@@H](CC1=CC=CC=C1)C(=O)N[C@@H]([C@@H](C)O)C(=O)N[C@@H](CC(N)=O)C(=O)N[C@@H](C(C)C)C(=O)N[C@@H](CO)C(=O)N[C@H]1CSSC[C@@H]2NC(=O)[C@H](CCCCN)NC(=O)CNC(=O)[C@H](CCCNC(N)=N)NC(=O)[C@H](CO)NC(=O)[C@@H](NC(=O)[C@H](CC(N)=O)NC(=O)[C@H](CC3=CNC=N3)NC(=O)[C@H](CC(C)C)NC(=O)[C@H](CCCNC(N)=N)NC(=O)[C@H](CCC(N)=O)NC(=O)[C@@H]3CSSC[C@H](NC(=O)[C@H](CCCNC(N

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	)=N)NC(=O)[C@H](CSSC[C@H](NC(=O)[C@H](CCC(O)=O)NC(=O)[C@H](CCCCN)NC(=O)[C@H](CO)NC(=O)[C@@H](NC(=O)[C@@H](NC1=O)[C@@H](C)O)[C@@H](C)O)C(=O)N[C@@H](CC1=CNC4=C1C=CC=C4)C(=O)N[C@@H](CO)C(=O)N[C@@H](C(C)C)C(=O)N3)NC(=O)[C@H](CCCCN)NC(=O)[C@H](CCCCN)NC(=O)[C@H](CC(N)=O)NC(=O)[C@H](CCSC)NC2=O)C(=O)N[C@@H](CC1=CC=C(O)C=C1)C(=O)N[C@@H](CO)C(O)=O)[C@@H](C)O
InChiKey	CNVQLPPZGABUCM-UHFFFAOYSA-N

References

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