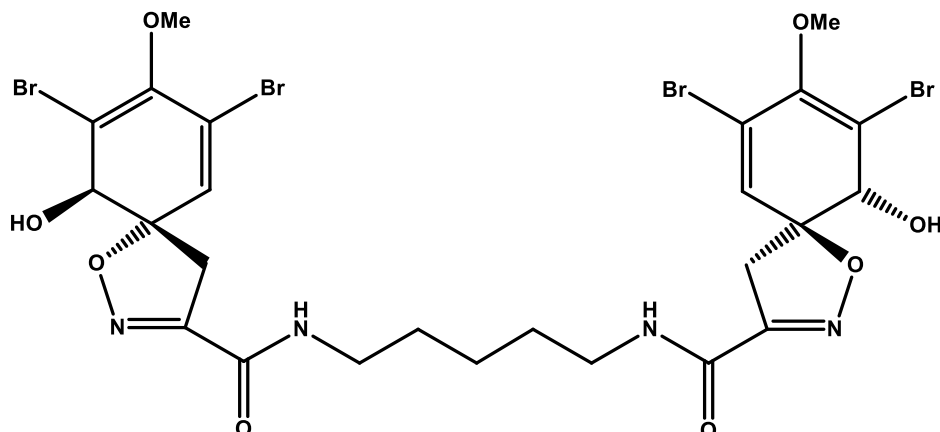


Product Data Sheet

Homoaerothionin



General description	Homoaerothionin is a symmetric isoxazolin alkaloid and differs from Aerothionin in the length of the bridging alkyl chain. The secondary metabolite belongs to the bromotyrosine derivatives.
Specific biological description	<ul style="list-style-type: none"> • VDCC inhibition (95 % @ 18 µM) • effect against <i>P. falciparum</i> (IC₅₀ [FcB-1]: 3.4 µM, IC₅₀ [3D7]: 4.2 µM) • inhibition of AChE and BChE (IC₅₀: 2.9–6.2 µM)
Purity	> 99 % (HPLC)
Appearance	solid

Product properties

Chemical name (IUPAC)	(5 <i>S</i> ,5' <i>S</i> ,10 <i>R</i> ,10' <i>R</i>)- <i>N,N'</i> -1,5-Pentanediyldis[7,9-dibromo-10-hydroxy-8-methoxy-1-oxa-2-azaspiro[4.5]deca-2,6,8-triene-3-carboxamide
Molecular formula	C ₂₅ H ₂₈ Br ₄ N ₄ O ₈
Molecular weight	832.13 g/mol
CAS Number	34232-66-1
PubChem CID	100315
SMILES	COC1=C(Br)C(O)C2(CC(=NO2)C(=O)NCCCCNC(=O)C3=NOC4(C3)C=C(Br)C(=C(Br)C4O)OC)C=C1Br
Solubility	ethanol, methanol und DMSO
Source	<i>Aplysina cavernicola</i>

„Squeeze the sponge’s full potential“



Product notes

Long term storage	-20 °C (protected from moisture)
Handling	Prepared solutions need to be stored in tightly sealed vials at -20 °C.

THIS PRODUCT IS FOR RESEARCH USE ONLY AND IS NOT INTENDED FOR DIAGNOSTIC OR THERAPEUTIC USE, NOT FOR USE IN HUMANS.

Product literature references

- [1] N. Sirimangkalamkitti, O. J. Olatunji, K. Changwichit, T. Saesong, S. Chamni, P. Chanvorachote, K. Ingkaninan, A. Plubrukarn, K. Suwanborirux *Nat. Prod. Commun.* **2015**, *10*, 1.
- [2] L. Mani, V. Jullian, B. Mourkazel, A. Valentin, J. Dubois, T. Cresteil, E. Folcher, J. N. A. Hooper, D. Erpenbeck, W. Aalbersberg, C. Debitus *Chem. Biodivers.* **2012**, *9*, 1436.
- [3] European Patent Application, EP 1 609 783 A1