

PLTX-II Active Peptide

PLTX-II

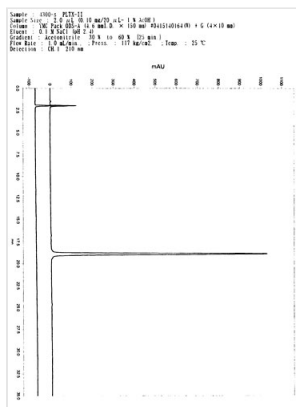
CATALOG #
AAA60593

PRODUCT SYNONYMS

PLTX-II; PLTX-II active peptide

PRODUCT SPECIFICATIONS

Form/Format	This vial contains exactly 0.10 mg (20 nmol) of the titled compound, which has been lyophilized as an amorphous powder from aqueous solution. Appearance: White amorphous powder
Sequence	Ala-Asp-Cy s-Ser-Ala- Thr-Gly-As p-Thr-CysA sp-His-Thr -Lys-Lys-c ys-cys-Asp -Asp-CysTy r-Thr-cys- Arg-Cys-Gl y-Thr-Pro- Trp-GlyAla -Asn-Cys-A rg-Cys-Asp -Tyr-Tyr-L ys-AlaArg- Cys-Asp-Th r(Palmitoy l)-NHc (Disulfide bondsundet ermined)(M.W.510 8.73)C203H 313N61O70S 10
Solution	Do not remove the cap. Inject 200 ul of 0.1% acetic acid solution into the vial using a calibrated syringe. Dissolve all the contents thoroughly. This procedure furnishes a 0.1 mM solution of the titled compound.
Specific Optical Rotation	$[\alpha]^{20}_D$ -5.5 * (c 0.26, H₂O)
Amino Acid Analysis	Acid Hydrolysis: 6N HCl. 110 degree C, 22h *with thioglycolic acid Asp (8) 8.04 Thr (6) 5.73 Ser (1) 0.95 Pro (1) 1.03 Gly (3) 3.00 Ala (4) 3.90 1/2 Cystine (10) 9.66 Tyr (3)2.98 His (1)0.99 Lys (3)3.00 NH₃ (2) 3.18 Trp(100.62* Arg (3) 2.96
Thin Layer Chromatography	Single spot
Cellulose Layer	Application: 50ug Solvent system: n-BuOH:AcOH:H₂O:pyridine=15:3:12:10 Located by ninhydrin and Pauly reagent
Preparation and Storage	Storage (Solution): After preparing 100-200 ul aliquots, freeze them at -20 degree C or below until use. Tlle aqueous solution should be used within a few weeks. Storage (powder): Tlle undissolved peptide is stable at -2C degree C for more than one year.



Application Data

Related Product Information for PLTX-II active peptide	(Spider, Plectreuryts tristis) Ala-Asp-Cys-Ser-Ala-Thr-Gly-Asp-Thr-Cys-Asp-His-Thr-Lys-Lys-Cys-Cys-Asp-Asp-Cys-Tyr-Thr-Cys-Arg-Cys-Gly-Thr-Pro-Trp-Gly-Ala-Asn-Cys-Arg-Cys-Asp-Tyr-Tyr-Lys-Ala-Arg-Cys-Asp-Thr(Palmitoyl)-NH2 (Disulfide bonds undetermined) (M.W. 5108.7) C208H313N61O70S10 Presynaptic Ca2+ Channel Blocker W.D. Branton, L. Kolton, Y.N. Jan, and L.Y. Jan, J. Neurosci., 7, 4195 (1987). (Original) H.-T. Leung, W.D. Branton, H.S. Phillips, L. Jan, and L. Byerly, Neuron, 3, 767 (1989). (Pharmacol.) W.D. Branton, M.S. Rudnick, Y. Zhou, E.D. Eccleston, G.B. Fields, and L.D. Bowers, Nature, 365, 496 (1993). (Thr(Pal)amide) J. Bódi, H. Nishio, Y. Zhou, W.D. Branton, T. Kimura, and S. Sakakibara, Pept. Res., 8, 228 (1995). (Chem. Synthesis & Biological Activity)
Product Categories/Family for PLTX-II active peptide	Biologically Active Peptide

Molecular Weight	5108.73
------------------	---------

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

AAA Biotech | Tel: +1 (619) 604-9440 | Fax: +1 (619) 604-9441 | contact@aaabiotech.com
Online datasheet: <https://stage.aaabiotech.com/active-peptide/pltx-ii/60593>