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Certificate of Analysis

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Product Name: Cyclotraxin B CAS Number: 1203586-72-4 Catalog No.: 5062 B

Batch No.: 8

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula:	C ₄₈ H ₇₃ N ₁₃ O ₁₇ S ₃
Batch Molecular Weight:	1200.36
Physical Appearance:	White lyophilised solid
Counter Ion:	TFA
Solubility:	Soluble to 2 mg/ml in water
Storage:	Store at -20°C
Peptide Sequence:	Cys-Asn-Pro-Met-Gly-Tyr-Thr-Lys-Glu-Gly-Cys
2. ANALYTICAL DATA	

Shows 96.4 % purity

Consistent with structure

HPLC:

Mass Spectrum:	um:
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3. AMINO ACID ANALYSIS DATA

Amino Acid Theoretical Actual			Amino Acid Theoretical Actual			
	Ala			Lys	1.00	0.99
	Arg			Met	1.00	0.91
	Asx	1.00	1.00	Phe		
	Cys	2.00	Not Detected	Pro	1.00	1.01
	Glx	1.00	0.99	Ser		
	Gly	2.00	2.00	Thr	1.00	1.00
	His			Trp		
	lle			Tyr	1.00	0.97
	Leu			Val		

Caution - Not Fully Tested • Research Use Only • Not For Human or Veterinary Use

bio-techne.com	North America	China	Europe Middle East Africa	Rest of World
info@bio-techne.com techsupport@bio-techne.com	Tel: (800) 343 7475	info.cn@bio-techne.com Tel: +86 (21) 52380373	Tel: +44 (0)1235 529449	www.tocris.com/distributors Tel:+1 612 379 2956

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Description:

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Product Name: Cyclotraxin B

CAS Number: 1203586-72-4

Storage: Store at -20°C

Solubility & Usage Info:

Soluble to 2 mg/ml in water

This product is supplied in lyophilized form. It may appear as a solid, gel or film and be very hard to visualize. Solutions should be made by adding solvent directly to the vial. The vial should then be vortexed vigorously to ensure the product has completely dissolved.

Counter Ion: TFA

Stability and Solubility Advice:

Some solutions can be difficult to obtain and can be encouraged by rapid stirring, sonication or gentle warming (in a 45-60°C water bath).

Peptides in solution are much less stable than in lyophilized form. This is especially true for peptides whose sequences contain amino acids such Cys, Met,Trp, Asn, Gln, and N-terminal Glu.

Therefore we recommend storing peptides in solution for as short a time as possible. Avoid repeated freeze thaw cycles by dividing the peptide solution into aliquots and storing the aliquots at -20°C. Any portion of an aliquot unused after thawing should be discarded.

Peptides stored in solution can occasionally be susceptible to bacterial degradation. We recommend using sterile solutions or passing the peptide solution through a 0.2 μ m filter to remove potential bacterial contamination whenever possible.

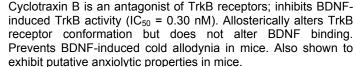
References:

Constandil *et al* (2012) Cyclotraxin-B, a new TrkB antagonist, and glial blockade by propentofylline, equally prevent and reverse cold allodynia induced by BDNF or partial infraorbital nerve constriction in mice. J.Pain **13** 579. PMID: 22560237.

Cazorla *et al* (2010) Cyclotraxin-B, the first highly potent and selective TrkB antagonist, has anxiolytic properties in mice. PLoS One **5** e9777. PMID: 20333308.

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Physical and Chemical Properties:

Batch Molecular Formula: C₄₈H₇₃N₁₃O₁₇S₃

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Physical Appearance: White lyophilised solid

Peptide Sequence:

Cys-Asn-Pro-Met-Gly-Tyr-Thr-Lys-Glu-Gly-Cys

Catalog No.: 5062

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