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TOCRIS

Print Date: Sep 7th 2023

Certificate of Analysis

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Product Name: **Sakura 6** **Catalog No.: 7897** **Batch No.: 1**

CAS Number: 2490708-79-5

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula:	$C_{31}H_{45}N_5O_7$
Batch Molecular Weight:	599.73
Physical Appearance:	White lyophilised solid
Counter Ion:	TFA
Solubility:	Soluble to 1 mg/ml in 0.01M PBS (pH 7.4)
Storage:	Store at -20°C
Peptide Sequence:	*N*-Cyclohexylethyl-Ala-Asp-Trp-Val

2. ANALYTICAL DATA

HPLC:	Shows 99.0% purity
Mass Spectrum:	Consistent with structure

3. AMINO ACID ANALYSIS DATA

Amino Acid	Theoretical	Actual	Amino Acid	Theoretical	Actual
Ala	1.00	Detected	Lys		
Arg			Met		
Asx	1.00	0.44	Phe		
Cys			Pro		
Glx			Ser		
Gly			Thr		
His			Trp	1.00	Detected
Ile			Tyr		
Leu			Val	1.00	1.00

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

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Product Name: **Sakura 6** **Catalog No.: 7897** **1**

CAS Number: 2490708-79-5

Description:

Sakura 6 is a synthetic serotonin transporter (SERT)-binding peptide. Promotes interaction of SERT and neuronal nitric oxide synthase, reduces cell surface SERT, increases autoinhibition, reduces synaptic 5-HT release and reduces firing in the dorsal raphe nucleus. Induces an acute depressive phenotype in a mouse model of depression.

Physical and Chemical Properties:

Batch Molecular Formula: $C_{31}H_{45}N_5O_7$

Batch Molecular Weight: 599.73

Physical Appearance: White lyophilised solid

Peptide Sequence:

N-Cyclohexylethyl-Ala-Asp-Trp-Val

Storage: Store at -20°C

Solubility & Usage Info:

Soluble to 1 mg/ml in 0.01M PBS (pH 7.4)

This product is supplied as a lyophilized solid and may 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 µm filter to remove potential bacterial contamination whenever possible.

References:

Sun *et al* (2022) Design of fast-onset antidepressant by dissociating SERT from nNOS in the DRN. Science ***378*** 390. PMID: 36302033.

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