# biotechne<sup>®</sup> TOCRIS

#### Print Date: Mar 4th 2024

## **Certificate of Analysis**

### www.tocris.com

 Product Name:
 OXA (17-33)

 CAS Number:
 343268-91-7

## Catalog No.: 5115 Batcl

Batch No.: 3

## 1. PHYSICAL AND CHEMICAL PROPERTIES

ophilised solid
ophilised solid
to 1 mg/ml in water
t -20°C
u-Leu-Leu-His-Gly-Ala-Gly-Asn-His-
a-Gly-lle-Leu-Thr-Leu-NH2

2.	ANALYTICAL DATA
	HPLC:

Mass Spectrum:

Shows 97.3 % purity
Consistent with structure

3. AMINO ACID ANALYSIS DATA

## Amino Acid Theoretical Actual Amino Acid Theoretical Actual

Ala	3.00	2.93	Lys		
Arg			Met		
Asx	1.00	1.03	Phe		
Cys			Pro		
Glx	1.00	0.97	Ser		
Gly	3.00	3.08	Thr	1.00	1.05
His	2.00	2.08	Trp		
lle	1.00	1.00	Tyr	1.00	0.97
Leu	4.00	3.96	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

## biotechne TOCRIS

## www.tocris.com

#### Product Name: OXA (17-33)

CAS Number: 343268-91-7

#### **Description:**

OXA (17-33) is a potent and selective peptide orexin  $OX_1$  receptor agonist (EC<sub>50</sub> values are 8.29 and 187 nM for  $OX_1$  and  $OX_2$  receptors respectively). Truncated form of orexin A (Cat. No. 1455).

#### **Physical and Chemical Properties:**

Batch Molecular Formula: C<sub>79</sub>H<sub>125</sub>N<sub>23</sub>O<sub>22</sub> Batch Molecular Weight: 1749 Physical Appearance: White Iyophilised solid

#### **Peptide Sequence:**

Tyr-Glu-Leu-Leu-His-Gly-Ala-Gly-Asn-His-Ala-Ala-Gly-Ile-Leu-Thr-Leu-NH<sub>2</sub>

## Storage: Store at -20°C

## Solubility & Usage Info:

Soluble to 1 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  $\mu$ m filter to remove potential bacterial contamination whenever possible.

#### **References:**

German *et al* (2013) Truncated orexin peptides: structure-activity relationship studies. Med.Chem.Lett. **4** 1224. PMID: 24707347. Darker *et al* (2001) Structure-activity analysis of truncated orexin-A analogues at the orexin-1 receptor. Bioorg.Med.Chem.Lett. **11** 737. PMID: 11266181.

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

Catalog No.: 5115

3