

**Product Name:** Foxy 5  
CAS Number: 881188-51-8

**Catalog No.:** 5461 **Batch No.:** 6

**1. PHYSICAL AND CHEMICAL PROPERTIES**

**Batch Molecular Formula:** C<sub>26</sub>H<sub>42</sub>N<sub>6</sub>O<sub>12</sub>S<sub>2</sub>  
**Batch Molecular Weight:** 694.77  
**Physical Appearance:** White lyophilised solid  
**Counter Ion:** TFA  
**Solubility:** Soluble to 1 mg/ml in PBS (pH 7.4)  
**Storage:** Store at -20°C  
**Peptide Sequence:** *N*-Formyl-Met-Asp-Gly-Cys-Glu-Leu

**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				Lys			
Arg				Met	1.00		1.00
Asx	1.00	1.00		Phe			
Cys	1.00	Detected		Pro			
Glx	1.00	1.00		Ser			
Gly	1.00	0.96		Thr			
His				Trp			
Ile				Tyr			
Leu	1.00	1.03		Val			

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

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CAS Number: 881188-51-8

**Description:**

Foxy 5 is a Wnt5a peptide mimetic. Impairs migration and invasion of 4T1 breast cancer cells in vitro. Also inhibits metastasis of inoculated 4T1 cells in mice.

**Physical and Chemical Properties:**Batch Molecular Formula: C<sub>26</sub>H<sub>42</sub>N<sub>6</sub>O<sub>12</sub>S<sub>2</sub>

Batch Molecular Weight: 694.77

Physical Appearance: White lyophilised solid

**Peptide Sequence:****N-Formyl-Met-Asp-Gly-Cys-Glu-Leu****Storage:** Store at -20°C**Solubility & Usage Info:**

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

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 as 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:**

Säffholm *et al* (2008) The Wnt-5a-derived hexapeptide Foxy-5 inhibits breast cancer metastasis *in vivo* by targeting cell motility. Clin.Cancer Res. **14** 6556. PMID: 18927296.

Säffholm *et al* (2006) A formylated hexapeptide ligand mimics the ability of Wnt-5a to impair migration of human breast epithelial cells. J.Biol.Chem. **281** 2740. PMID: 16330545.

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**bio-techne.com**info@bio-techne.com  
techsupport@bio-techne.com**North America**

Tel: (800) 343 7475

**China**info.cn@bio-techne.com  
Tel: +86 (21) 52380373**Europe Middle East Africa**

Tel: +44 (0)1235 529449

**Rest of World**www.tocris.com/distributors  
Tel:+1 612 379 2956