

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

Catalog No.: 5461 **Batch No.:** 7

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: C₂₆H₄₂N₆O₁₂S₂
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 97.4% purity
Mass Spectrum: Consistent with structure

3. AMINO ACID ANALYSIS DATA

Amino Acid Theoretical			Actual	
Ala			Lys	
Arg			Met	1.00 1.00
Asx	1.00	1.00	Phe	
Cys	1.00	Not 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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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: C₂₆H₄₂N₆O₁₂S₂

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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