

Product Name: TAT-PDHPS1

Catalog No.: 7832

Batch No.: 1

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: C₁₅₆H₂₈₀N₆₂O₄₅
Batch Molecular Weight: 3744.32
Physical Appearance: White lyophilised solid
Counter Ion: TFA
Solubility: Soluble to 2 mg/ml in water
Storage: Store at -20°C
Peptide Sequence: Gly-Arg-Lys-Lys-Arg-Arg-Gln-Arg-Arg-Arg-Pro-Pro-Gln-Gln-Ile-Ala-Thr-Thr-Thr-Ala-Ser-Ala-Ala-Thr-Ala-Ala-Ala-Ile-Gly-Ala-Thr-Pro-Arg-Ala-Lys

2. ANALYTICAL DATA

HPLC: Shows 96.8 % purity
Mass Spectrum: Consistent with structure

3. AMINO ACID ANALYSIS DATA

Amino Acid Theoretical Actual			Amino Acid Theoretical Actual		
Ala	9.00	9.02	Lys	3.00	3.00
Arg	7.00	6.86	Met		
Asx			Phe		
Cys			Pro	3.00	3.00
Glx	3.00	2.96	Ser	1.00	1.02
Gly	2.00	2.00	Thr	5.00	4.86
His			Trp		
Ile	2.00	2.01	Tyr		
Leu			Val		

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

Product Name: TAT-PDHPS1**Catalog No.:** 7832**1****Description:**

TAT-PDHPS1 is a YAP inhibitor (Yes-associated protein inhibitor). It comprises the endogenous peptide PDHPS1 and the cell-penetrating peptide sequence TAT. PDHPS1 binds to protein phosphatase 2 phosphatase activator (PTPA), which activates protein phosphatase 2A (PP2A). This activation leads to the phosphorylation of YAP and the suppression of YAP-targeted genes. TAT-PDHPS1 inhibits the proliferation of ovarian cancer cells in vitro and ovarian tumor growth in a subcutaneous xenograft mouse model.

Physical and Chemical Properties:Batch Molecular Formula: C₁₅₆H₂₈₀N₆₂O₄₅

Batch Molecular Weight: 3744.32

Physical Appearance: White lyophilised solid

Peptide Sequence:

Gly-Arg-Lys-Lys-Arg-Arg-Gln-Arg-Arg-Arg-
Pro-Pro-Gln-Gln-Ile-Ala-Thr-Thr-Thr-Ala-
Ser-Ala-Ala-Thr-Ala-Ala-Ala-Ile-Gly-Ala-
Thr-Pro-Arg-Ala-Lys

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 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:

Pan et al (2022) Peptide PDHPS1 inhibits ovarian cancer growth through disrupting YAP signaling. *Mol.Cancer Ther.* **21** 1160. PMID: 35545004.

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

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