

Clickable-TAT Azide (49-57) Active Peptide

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CATALOG #
AAA60589

PRODUCT SYNONYMS

Clickable-TAT Azide (49-57); Clickable-TAT Azide (49-57) active peptide

PRODUCT SPECIFICATIONS

Form/Format	Dry
Sequence	5-azido-pe ntanoyl-RK KRRQRRR-NH 2
Product	Research Grade Peptide.
Formula	C ₅₈ H ₁₁₄ N ₃₄ O ₁₁
Soluble	1 mg in 50 ~tl of distilled, sterile water 1 mg in 50 ~tl of 3% acetic acid (AcOH) 1 mg in 50 ~tl of phosphate buffered saline (PBS) 1 mg in 50 ~tl of DMSO (stable upon further dilution with sterile water)
Preparation and Storage	Please store dry and frozen (-20°C). The undissolved peptide is stable below -20°C in the dark for long term storage. The solution stability has not been tested, therefore, prompt use is recommended.

IMAGES

Quality Control Specifications:		
QC Test	QC Specifications	Results
Purity by HPLC	>90% by percent area	Pass
Mass Identification by Mass Spectral Analysis	Calculated Mass within +/-1 Da of average Molecular Weight: 1463.78	Pass
Concentration / Net Peptide Content	Result Only	57.7%
Salt Form	Trifluoroacetate (TFA) Salt	Trifluoroacetate (TFA)

Quality Control

ADDITIONAL INFORMATION

Related Product Information for Clickable-TAT Azide (49-57) active peptide

TFA salt 5-azido-pentanoyl-RKKRRQRRR-NH₂ C₅₈H₁₁₄N₃₄O₁₄ MW: 1511.77 HIV TAT sequence 49-57 This arginine-rich TAT peptide penetrates plasma membrane directly, but not through endocytosis. TAT (49-57) is modified with 5-Azido-pentanoic acid for click chemistry. The azido group can react with alkyne containing molecules in the presence of Cu/CuSO₄ yielding a conjugate crosslinked by a triazole moiety. The reaction can be applied for the conjugation of TAT to various molecules include oligonucleotides to facilitate cell penetration for therapeutic applications. S. Brown and D. Graham, Tet Lett, 51, 5032 (2010).

Product Categories/Family for Clickable-TAT Azide (49-57) active peptide

[Biologically Active Peptide](#)

NCBI AND UNIPROT INFORMATION

Molecular Weight

1463.78

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://stage.aaabiotech.com/active-peptide/clickable-tat-azide-49-57/60589>