
Product Data Sheet

Product Name: TAT peptide

Cat. No.: GC34268

Chemical Properties

Cas. No.

SMILES Gly-Arg-Lys-Lys-Arg-Arg-Gln-Arg-Arg-Arg-Pro-Gln

Formula C₆₅H₁₂₄N₃₄O₁₅ M.Wt 1621.91

Solubility Water : ≥ 25 mg/mL (15.41 mM) Storage Store at -20°C

General tips For obtaining a higher solubility , please warm the tube at 37 °C and shake it in the ultrasonic bath for a while. Stock solution can be stored below -20°C for several months.

Shipping Condition Evaluation sample solution : ship with blue ice All other available size: ship with RT , or blue ice upon request.

Structure

Background

TAT peptide is a cell penetrating peptide (GRKKRRQRRRPQ) derived from the trans-activating transcriptional activator (Tat) from HIV-1.

TAT peptide is a cell penetrating peptide (GRKKRRQRRRPQ) derived from the trans-activating transcriptional activator (Tat) from HIV-1[1]. TAT peptide (GRKKRRQRRRPQ) functionalized hybrid nanoparticles are also studied due to their combined magnetic enrichment and optical detection for cell separation and rapid cell labelling. A cell viability assay reveals good biocompatibility of these hybrid nanoparticles[2].

[1]. Orzáez M, et al. Intrinsic caspase-8 activation mediates sensitization of erlotinib-resistant tumor cells to erlotinib/cell-cycle inhibitors combination treatment. Cell Death Dis. 2012 Oct 25;3:e415. [2]. Lou L, et al. Functionalized magnetic-fluorescent hybrid nanoparticles for cell labelling. Nanoscale. 2011 May;3(5):2315-23.

Caution: Product has not been fully validated for medical applications. For research use only.

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