

## Biotin-TAT (47-57)

Cat. No.:	HY-P2467
CAS No.:	1231898-25-1
Molecular Formula:	C <sub>74</sub> H <sub>132</sub> N <sub>34</sub> O <sub>16</sub> S
Molecular Weight:	1786.12
Sequence Shortening:	{Biotin}-YGRKKRRQRRR
Target:	Fluorescent Dye
Pathway:	Others
Storage:	Sealed storage, away from moisture and light, under nitrogen Powder    -80°C    2 years -20°C    1 year  * In solvent : -80°C, 6 months; -20°C, 1 month (sealed storage, away from moisture and light, under nitrogen)

### BIOLOGICAL ACTIVITY

#### Description

Biotin-TAT (47-57), a biotin tagged TAT, is a transactivator of transcription. Biotin-TAT (47-57) is one of the most widely used protein transduction domains (PTDs) into different primary cells is ATP- and temperature-dependent, indicating the involvement of endocytosis<sup>[1][2]</sup>.

### REFERENCES

- [1]. Chen Sun, et al. Intracellular tracking of single native molecules with electroporation-delivered quantum dots. *Anal Chem.* 2014 Nov 18;86(22):11403-9.
- [2]. Jean Philippe Richard, et al. Cellular uptake of unconjugated TAT peptide involves clathrin-dependent endocytosis and heparan sulfate receptors. *J Biol Chem.* 2005 Apr 15;280(15):15300-6.

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

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