

# Product Information

## CyLoP-1

For Research Purposes only. Not for use in Humans



<b>Product</b>	BAP-307
<b>Sequence</b>	CRWRWKCKK Cys-Arg-Trp-Arg-Trp-Lys-Cys-Cys-Lys-Lys
<b>CAS</b>	Not available
<b>MW / Formula</b>	1396.8 / C <sub>61</sub> H <sub>97</sub> N <sub>21</sub> O <sub>11</sub> S <sub>3</sub>
<b>Counter ion</b>	TFA
<b>Description</b>	<p>Cell penetrating peptides (CPPs) are characterised by their ability to promote the receptor-independent cellular uptake of membrane-impermeable macromolecules, such as peptides, proteins, nucleic acids and nanoparticles. CPPs are usually short peptides with less than 30 amino acids. They are mostly amphipathic and highly cationic and usually rich of amino acids arginine and lysine.</p> <p>In 1988 the first CPP, the HIV-1 Trans-Activator of Transcription (TAT) protein was discovered independently by two laboratories (see BAP-303: TAT (47-57), BAP-304: D-TAT (47-57), BAP-305: TAT (48-60)).</p> <p>A novel, cationic cysteine-rich CPP, CyLoP-1, has been developed exhibiting distinguished diffused cytosolic distribution along with endosomal uptake at low micromolar concentrations. Comparative uptake analysis with known CPPs showed CyLoP-1 as a promising delivery vector to access the cytosol in a variety of cell types. Efficient intracellular delivery into the entire cytosol already at low micromolar concentrations makes CyLoP-1 a promising candidate for cytosolic delivery of cargoes of small sizes.</p>
<b>Packaging Reconstitution Storage</b>	<p>The peptide is provided as a lyophilised, colourless powder without any additives. It can be shipped at ambient temperature and should be stored at -20°C.</p> <p>CyLoP-1 can be reconstituted in water. Through the use of a vortex mixer, homogeniser or sonicator, a homogenous solution can be prepared. If you use an ultrasonic bath, take care of the vial labels.</p> <p>After reconstitution, the solution should be aliquoted and stored at or below -20°C. Repeated thawing and freezing should be avoided.</p>
<b>Handling</b>	<p>Caution, not fully tested. Good laboratory technique should be employed in the safe handling of any peptide product. If you are not fully trained or are unaware of the hazards involved, do not use this compound!</p> <p>Caution: Do not take internally! Avoid contact by all modes of exposure. Wear appropriate laboratory attire including a lab coat, gloves, mask and safety glasses. Do not mouth pipette, inhale, ingest or allow coming into contact with open wounds. Wash thoroughly any area of the body which comes into contact with the product. Avoid accidental autoinoculation by exercising extreme care when handling in conjunction with any injection device.</p> <p>This product is intended for research purposes by qualified personnel only. It is not intended for use in humans or as a diagnostic agent. EMC microcollections GmbH is not liable for any damages resulting from misuse or handling of this product.</p>

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### References

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