

# DeepCPP<sub>PRED</sub>

**DeepCPPpred** is a web service for the DeepCPP model, build to predict the permeation ability of peptides determining if a peptide is a cell penetrating peptide (CPP) or not (non-CPP).

## Input:

1. single line prediction: the user can provide peptide sequence in the input box.
2. Batch prediction: Provide a list of peptide sequence in FASTA file

**Note:** peptide sequences 5 - 30 residues in length

## Output:

The DeepCPPpred tool predict whether the query peptide is a CPP or non-CPP, and provides the confidence score of prediction, a value between 0 and 1, which denotes the level of likeliness of the peptide to be cell penetrating peptide. where a score close to 1 denotes a strong confidence from the DeepCPPpred that the peptide is a CPP, and a score close to 0 a strong confidence that the peptide is a non-CPP.

Click [here](#) For more information.

Single Prediction

Batch Prediction

Enter peptide sequence

Prediction

Prediction options

## 1- Single prediction

a

Single Prediction

Batch Prediction

Select "Single Prediction"

Enter peptide sequence

b

GWTNLSAGYLLGPPPGFSPFR

Insert peptide sequence

Prediction

Click "Prediction"

## Result

### Cell Penetrating Peptide prediction output

	Peptide Sequence	Probability	CPP
0	GWTNLSAGYLLGPPPGFSPFR	0.006349897012114525	✗

## 2- Batch Prediction

Single Prediction c **Select “Batch Prediction”**

Batch Prediction

Download Example input file

 A sample of the input Fasta file could be downloaded from here

# Upload FASTA file of peptide sequences

d **Upload Fasta file of peptide sequences**

Drag and drop file here  
Limit 200MB per file • FASTA

Browse files

 test.fasta 92.0B

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Click “Prediction”

Prediction

### Cell Penetrating Peptide prediction output

#### Results

	Peptide Sequence	Probability	CPP
0	RLWMRWYSPTRARG	0.9995809197425842	✓
1	QDGGTWHLVAYCAKSHRY	0.7344027161598206	✓
2	WWWRRRRRRRR	0.9997885823249817	✓
3	KLLKLLKLLKLLK	0.9941826462745667	✓

[Download Predictions](#)

 Prediction results could be downloaded from here