Peptide Solubility Test Report

Name	
Order ID	
Lot No.	
Sequence	

Solvent[1]	**Results[2] (Dissolved or Undissolved)**	**Gross Peptide Concentration**
ultrapure water	**Dissolved**	≦5mg/ml
1x DPBS*(pH 7.1±0.1)	**Dissolved**	≦10mg/ml
DMSO*	**Dissolved**	≦20mg/ml
Others*	**N/A**	**N/A**

DMSO: dimethyl sulfoxide(Analytical grade);

DPBS Dulbecco's Phosphate Buffered Saline, containing Potassium Chloride(KCl),Potassium Phosphate monobasic (KH_2PO_4),Sodium Chloride (NaCl) andSodium Phosphate dibasic (Na_2HPO_4-$7H_2O$).

Comments:

1. Solubility less than 0.1 mg/ml is defined as 'Undissolved'. Otherwise, it will be defined as 'Dissolved', and an estimated concentration range will be provided.

2. For preparing solutions in aqueous-based buffers (or your desired buffer), which keeps the pH of a solution relatively constant as required for many biochemical processes , it is recommended to first dissolve the peptide in a minimum soluble amount of water (e.g. 1 ml water for 1 mg peptide if the solubility is 1 mg/ml) and then re-adjust the solution composition with pre-made concentrated buffer, e.g., adding 1 part (v:v) 10x DPBS to 9 parts (v:v) solubilized peptide to obtain the required 1x PBS peptide-solution.

3. Peptides containing Cysteine (C), Methionine (M) or Tryptophan(W) are sensitive to oxidation by DMSO. We advise that peptides dissolved in DMSO be used immediately or stored at -20 ℃ (or preferably −80 ℃)prior to use.

4. When the peptide is neither soluble in water or DMSO in our tests, please refer to the above table for other suggested solvents.

5. **Please note that distinct dissolution behaviors may happen between small amounts and large amounts of gross peptide in the same solvent. Generally, larger amounts of peptide take longer to dissolve. A brief incubation at warm temperatures (<40°C) or sonication can assist in dissolving the peptide.**

Tested by:

860 Centennial Ave., Piscataway, NJ 08854, USA
Toll-free Tel: 1-877-436-7274 Fax: 1-732-210-0262 Email: product@genscript.com Web: www.genscript.com