

## Experimental Procedures Solid Phase Peptide Synthesis Spps

**Solid Phase Peptide Synthesis Hands On Procedures from swelling resin to HPLC lu0926 MS analysis Fmoc Solid Phase Peptide Synthesis Solid Phase Peptide Synthesis : The Basics** Introduction to Solid Phase Peptide Synthesis  
**Solid Phase Peptide Synthesis Procedures**Solid Phase Peptide Synthesis at Elevated Temperatures Solid-Phase Synthesis of Proteins **19-05 Peptide-Synthesis-in-the-Laboratory** Lecture 27: Peptide coupling agents, Solid phase synthesis, peptide based therapeutics Solid Phase Peptide Synthesis **Peptide-Synthesis** Solid phase peptide synthesis **SOLID PHASE PEPTIDE SYNTHESIS Organic Chemistry SIC Lecture 18\_Amino Acids, Peptides, and Proteins. (Nowick)**  
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**Peptide Synthesis**Running a solid phase organic synthesis  
**Experimental Procedures Solid Phase Peptide**  
**Experimental procedures Solid phase peptide synthesis (SPPS)** Solid phase peptide synthesis (SPPS) was performed using a microwave-assisted peptide synthesizer (CEM) or in a standard manual reaction vessel under argon. Rink-amide MBHA resin and Wang resin were purchased from Sigma-Aldrich. DMF, DMSO, NMP, DCM, MeOH, ACN and DIEA were dried and distilled using standard protocols.

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**An effective synthetic procedure where the DOTA-linked peptide amide is synthesized on a single solid-phase support offers several advantages: the ease of coupling and time to synthesize one DOTA-peptide amide is dramatically reduced because DOTA is introduced to the peptide backbone [3, 5, 9, 10] while the peptide still attached to resin support, resulting in the formation of relatively pure DOTA-peptide product. Also, a large molar excess of DOTA will not be required as in solution-phase ...**

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**General Procedures for the Fmoc Solid-Phase Peptide Synthesis.** Peptides were synthesized with Fmoc solid-phase peptide synthesis (SPPS) on rink amide resin (initial loading = 0.15 mmol) manually. Fmoc deprotection was realized using 20% piperidine in DMF for 10 min at room temperature.

**Frontiers | Design, Synthesis, and Antitumor Activities ...**  
**Then, a solid-phase extraction (SPE) vacuum manifold (Figure S3d) (Phenomenex, Torrance, USA) was used for filtering and washing procedures of the resin by means of a PTFE universal stopcock (Figure S3a) that allowed the solvent passing through the resin and collected in a waste container.**

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**The solid-phase peptide synthesis starts with a resin which is insoluble under the conditions of the synthesis, usually a copolymer of polystyrene with 1 % divinylben-zene sometimes grafted with polyethylene glycol (Zalipsky et al. 1994), and which must also have an anchor for the synthesis to be carried out in the solid support (Merrifield**

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**Solid Phase Peptide Synthesis (SPPS)** can be defined as a process in which a peptide anchored by its C-terminus to an insoluble polymer is assembled by the successive ad- dition of the protected amino acids consti- tuting its sequence.

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**Experimental Procedure.** The procedure is composed of six steps: 1. 1. A few milligrams of resin is placed in a small glass tube and washed with DMF. 2. DMF (3 ml) is added followed by NMM (1 ml) and TCT (5 mg). 3. The tube is heated at 70° for 20 min. 4. The solution is pipetted off and the resin is washed thoroughly with DMF. 5.

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**Typically, the peptides are cleaved from the support together with the side-chain protecting groups, but there are several experimental procedures, which require solid-phase-bound peptides. The SPOT technique uses membranes as the solid support and enables the parallel synthesis and testing of hundreds to thousands of peptides at different locations on one membrane (Frank 1992).**

**Chemistry of Fmoc Peptide Synthesis on Membranes ...**  
**The most commonly N-terminal protecting group used in Solid Phase Peptide Synthesis (SPPS) is the Fmoc group (9-fluorenylmethoxycarbony-) (Scheme 1, Table 1) [1]– [3]. Besides the coupling procedure, the Fmoc deprotection step is another most crucial stage in peptide synthesis. Above all, the property which makes it a valuable tool is its stability in acidic conditions.**

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