

DiagSupport™ Chlorotrityl PEG-Polystyrene Resin, 90 μ m, 0.12-0.22 mmol/g, Long Peptide Sequence

Cat.No: SPS-RA23-070

DESCRIPTION

Description

This preactivated resin is ready for loading with nucleophilic compounds and amino acids under basic conditions. Due to the hygroscopic nature of PEG-polystyrene resins, the resin should be used immediately. This resin is recommended for long peptide sequences (up to 100 residues) and difficult sequences. The resin shows an increased swelling volume and a significant lower loading. This highly acid sensitive linker is useful for the immobilization of alcohols, amines and carboxylic acids. The sensitivity towards acids is very comparable to the 2-chlorotrityl linker. Cleavage is in general achieved by using either 5-50% TFA in CH_2Cl_2 (containing 5% triisopropylsilane) or acetic acid. This resin can also be used in Fmoc peptide synthesis. Carboxylic acids can be released under very mild acidic conditions by treatment with AcOH/TFE/DCM or HFIP in DCM. Completely protected peptides are generated under this conditions. The sensitivity toward acid treatment is comparable to the 2-CTC linker.

Residues which are sensitive to racemisation during esterification reactions like His and Cys can be attached to the resin without racemisation. Due to the bulkiness of the trityl group, diketopiperazine formation is suppressed which make this linker ideal for peptides with C-terminal Pro.

APPLICATION

Application Notes

Immobilization of alcohols, amines and carboxylic acids; Used for Fmoc peptide synthesis, recommended for long peptide sequences (up to 100 residues) and difficult sequences.

PRODUCT INFORMATION

Particle Size	90 μm
Functional Group	Chlorotrityl
Capacity	0.12-0.22 mmol/g