

The leader in Stable Isotopes Introduces

Reagents for Combinatorial Chemistry

ISOTEC is pleased to introduce BOC-ON (t-butyl-d₉) as a tool for combinatory chemistry, along with Acetyl-d₃ chloride and benzoyl-d₅, currently listed in our catalog.

The BOC-ON reagent is used to protect amino groups in the form of t-BOC derivatives. These carbamate protecting groups are not hydrolyzed under basic conditions and are inert to many other nucleophilic reagents. They are hydrolyzed under acid conditions.

An infrared microspectroscopy technique has been developed to monitor reactions in the combinatotal synthesis of a library of peptides *). The technique hinges on the IR detection and quantification of the deuterated t-BOC residue attached to the resin bonded peptide. This non-destructive method allows monitoring of the total number of the t-BOC-d₉ group that are attached to the polymer bonded peptide. Addition of another t-BOC-d₉ protected amino acid or removal of the protecting group is easily monitored.

Please call Isotec to inquire about more labelled building blocks for combinatory chemistry.

BOC-ON (t-butyl-d₉)

Catalog No.: T82-00948
Chemical Purity: min. 99 %
Isotopic Enrichment: min. 98 %
Water Content: < 0,5%

Acetyl-d₃ chloride

Catalog No.: T82-02502
Chemical Purity: min. 99 %
Isotopic Enrichment: min. 99 %

Benzoyl-d₅ chloride

Catalog No.: T82-02503
Chemical Purity: min. 99 %
Isotopic Enrichment: min. 99 %

*) Russel, K.; Cole, D.C.; McLaren, F.M.