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Fluorinated compounds are synthesized in pharmaceutical research on a routine basis and many marketed compounds contain fluorine. The present review summarizes some of the most frequently employed strategies for using fluorine substituents in medicinal chemistry.

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Fluorine in Pharmaceutical and Medicinal Chemistry. Fluorine chemistry is an expanding area of research that is attracting international interest, due to the impact of fluorine in drug discovery and in clinical and molecular imaging (e.g. PET, MRI).

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Fluorine in Life Sciences: Pharmaceuticals, Medicinal Diagnostics and Agrochemicals, volume four in Alain Tressaud's Progress in Fluorine Science series, presents a critical, multidisciplinary overview of the contributions of fluorinated products to solve important global issues in various life science fields, particularly in medicinal chemistry, molecular imaging techniques and agriculture.

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A significant proportion of pharmaceuticals currently available contain fluorine, which is a key element in these drugs for a variety of reasons, for example, to improve uptake across biological membranes by altering lipophilicity, or prolonging effectiveness by inhibiting metabolic degradation.

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Fluorine substituents have become a widespread and important drug component, their introduction facilitated by the development of safe and selective fluorinating agents. Organofluorine affects nearly all physical and adsorption, distribution, metabolism, and excretion properties of a lead compound.

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Thus, it can be conservatively estimated that globally about 20–25% of drugs in the pharmaceutical pipeline contain at least one fluorine atom. This is a high frequency considering organofluorine compounds are virtually absent as natural products, the traditional source of bioactives .

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When Fluorine is used in medicine, Fluorine is used to aggressively target bonding sites within the body to create medically therapeutic effects. It does create very strong bonds which can sometimes be very long lasting, which in some treatments is ideal, and in others, not quite so.

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Bioorganic and Medicinal Chemistry of Fluorine ...

The small and highly electronegative fluorine atom can play a remarkable role in medicinal chemistry. Selective installation of fluorine into a therapeutic or diagnostic small molecule candidate can enhance a number of pharmacokinetic and physicochemical properties such as improved metabolic stability and enhanced membrane permeation.

The role of fluorine in medicinal chemistry.

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Fluorine in Pharmaceutical and Medicinal Chemistry

Adding a fluorine increases both its medical power and anti-inflammatory effects. Fluorine-containing fludrocortisone is one of the most common of these drugs. Dexamethasone and triamcinolone, which are among the most potent of the related synthetic corticosteroid class of drugs, contain fluorine as well.

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