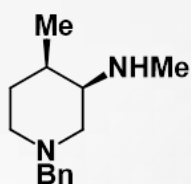




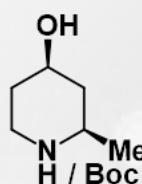
LIVERPOOL CHIROCHEM

Molecules of the Month Magic Methyl Effect

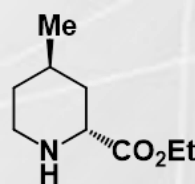
There are many examples in the literature demonstrating that the replacement of a C-H with C-Me in a specific position of a drug candidate can be associated with increase in potency. This effect, known as the magic methyl effect, is due to conformational change/restriction of the molecule which can increase the binding to the active site. Moreover, the strategical installation of a methyl group (i.e. benzylic, α to heteroatom, etc.) can improve pharmacodynamic and pharmacokinetic properties by preventing oxidation, improving membrane permeability and selectivity (*Angew. Chem. Int. Ed.*, **2013**, 12256).



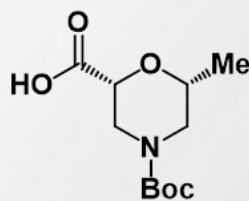
BC0092



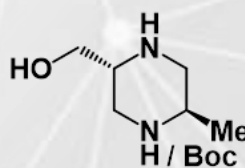
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A6812



A0352



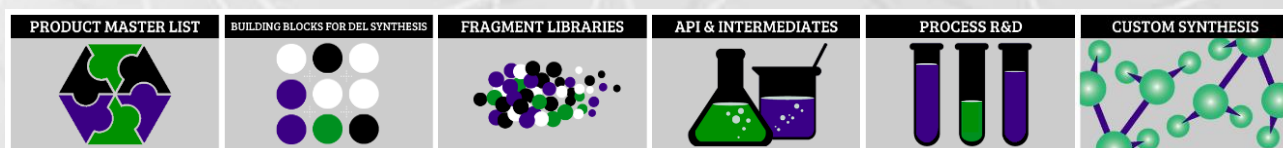
A8228



A5732
A6095

Liverpool ChiroChem can offer a number of *N*-heterocyclic scaffold bearing a chiral methyl moiety. These compounds can be used as building block and intermediates for small molecule drug discovery or fragment screening.

Should you require any further information regarding the new Product Master List, do not hesitate to get in touch with us. Alternatively, if you would like to explore our complete range of products and services, please use the enquiry button at the top of our webpage to get in touch.



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