Proline & Pyrrolidine Free Bases

Saturated nitrogen-containing heterocycles such as prolines and pyrrolidines are often found as the core structural unit in a large number of biologically active alkaloids, natural products and frequently show potent and diverse biological activities. A number of new derivatives are now available through Alfa Aesar and already been extensively cited in the scientific literature as in the following examples.

Glaxo has reported use of 3-aminopyrrolidines derivatives (H51729) in the synthesis of cathepsin C inhibitors having pharmacological activity. Other recent patents have claimed the use of substituted pyrrolidines such as H52184 in the preparation of pharmaceutical compositions that modulate serotonin norepinephrine and/or dopamine neurotransmission and H52012, H52113, H52137, and H52045 in the synthesis of potentially pharmaceutically active products as sphingosine-1-phosphate receptor antagonists. Substituted saturated aza heterocycles of the type H52733 have been found to be useful in synthesis of molecules which inhibit nitric oxide synthase mediated diseases and disorders.

H52796 was used in the multi-step synthesis to yield a series of potent renin inhibitors with apparent in vitro metabolic stability. Moreover, H52796 was used as the starting point in extremely efficient synthesis (71% over five steps), to yield a ketone analogue, before the 5-endo-dig N-cyclization to the nature product alkaloid NP25302. Alfa Aesar has extended its comprehensive range of proline and pyrrolidines with the following compounds.

![Chemical structures of various proline and pyrrolidine derivatives](image-url)
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H52107  N-Boc-(R)-2-(2-fluorobenzyl)-DL-proline, 95%

H52030  trans-N-Boc-4-(3-fluorobenzyl)-L-proline, 95%

H52021  trans-N-Boc-4-(4-fluorobenzyl)-L-proline, 95%

H51050  N-Boc-trans-4-hydroxy-L-prolinol, 96%

H52045  trans-N-Boc-4-(2-methylbenzyl)-L-proline, 95%

H52796  N-Boc-2-methyl-L-proline, 97%

H52035  trans-N-Boc-4-(2-naphthylmethyl)-L-proline, 95%

H52009  N-Boc-(R)-2-(1-propynyl)-DL-proline, 95%

H52118  trans-N-Boc-4-(2-propynyl)-L-proline, 95%

H52137  (S)-2-(1-Boc-2-pyrrolidinyl)acetic acid, 95%

H52175  (S)-2-(1-Boc-2-pyrrolidinyl)acetic acid, 95%

H52076  trans-N-Boc-4-[3-(trifluoromethyl)benzyl]-L-proline, 95%

H31236  Methyl (R)-(-)-2-pyrrolidinone-5-carboxylate, 98%

H31244  (1S,2R)-1-Phenyl-2-(1-pyrrolidinyl)-1-propanol