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**Past Experience- Uro-selective .alpha.1-adrenoceptor blockers:**

A review in J. Med. Chem., 1997, V.40, No.9, pp. 1292-1315, describes the most important pharmacological options available at present in the treatment of benign prostatic hyperplasia. The two most successful therapies are based on .alpha.-adrenergic receptor antagonism and androgen levels modulation by 5.alpha.-reductase inhibitors. 5.alpha.-reductase inhibitors are of limited effectiveness in terms of immediate symptomatic and urodynamic relief. .alpha1 -antagonists appear to be much more effective and provide immediate subjective symptomatic improvements and are therefore the preferred modalities of treatment in the control of benign prostrate hypertrophy. .alpha..sub.1 -adrenoceptors are also present in blood vessels and play an important role in the regulation of blood pressure. Thus, .alpha1 -adrenoceptor antagonists are of particular importance as they were originally developed as antihypertensive agents and are likely also to have a beneficial effect on lipid dysfunction and insulin resistance, which are commonly associated with essential hypertension.

**US patent 6,083,950** (Issued July 2000, one of the inventors is anita Mehta, patent was assigned to Ranbaxy) [1-(4-arylpiperazin-1-yl)-.omega.-[n-(.alpha.,.omega.-dicarboximido)]-alka nes useful as uro-selective .alpha.1-adrenoceptor blockers](http://patft.uspto.gov/netacgi/nph-Parser?Sect1=PTO2&Sect2=HITOFF&p=1&u=%2Fnetahtml%2FPTO%2Fsearch-bool.html&r=41&f=G&l=50&co1=AND&d=PTXT&s1=anita&s2=mehta&OS=anita+AND+mehta&RS=anita+AND+mehta)  , 

**US patent 6,090,809**  (Issued July 2000, one of the inventors is anita Mehta, patent was assigned to Ranbaxy) [1-(4-arylpiperazin-1-yl)-.omega.-[n-(.alpha... omega.-dicarboximido)]-alkanes useful as uro-selective .alpha..sub.1 -adrenoceptor blockers](http://patft.uspto.gov/netacgi/nph-Parser?Sect1=PTO2&Sect2=HITOFF&p=1&u=%2Fnetahtml%2FPTO%2Fsearch-bool.html&r=40&f=G&l=50&co1=AND&d=PTXT&s1=anita&s2=mehta&OS=anita+AND+mehta&RS=anita+AND+mehta) ,

**US patent 6,420,366** B1, (Issued July 2002, one of the inventors is Anita Mehta, and patent was assigned to Ranbaxy),

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|  | [1-(4-arylpiperazin-1-yl)-.omega.-[N-(.alpha..omega.-dicarboximido)]-alkanes useful as uro-selective .alpha.1-adrenoceptor blockers](http://patft.uspto.gov/netacgi/nph-Parser?Sect1=PTO2&Sect2=HITOFF&p=1&u=%2Fnetahtml%2FPTO%2Fsearch-bool.html&r=33&f=G&l=50&co1=AND&d=PTXT&s1=anita&s2=mehta&OS=anita+AND+mehta&RS=anita+AND+mehta) |

**US patent 6,812,344** (issued November 2004, one of the inventors is Anita Mehta, patent was assigned to Ranbaxy)

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|  | [1-(4-Arylpiperazin-1-yl)-.omega.-[N-(.alpha.,.omega.-dicarboximidoL)]-alkan es useful as uro-selective .alpha.1-adrenoceptor blockers](http://patft.uspto.gov/netacgi/nph-Parser?Sect1=PTO2&Sect2=HITOFF&p=1&u=%2Fnetahtml%2FPTO%2Fsearch-bool.html&r=26&f=G&l=50&co1=AND&d=PTXT&s1=anita&s2=mehta&OS=anita+AND+mehta&RS=anita+AND+mehta) ;   |  |  |  |  | | --- | --- | --- | --- | |  | **US patent 6,420,559( Issued July 2004,** one of the inventors is Anita Mehta, patent was **assigned to Ranbaxy);** [1-(4-arylpiperazin-1-yl)-.omega.-[N-(.alpha.,.omega.-dicarboximido)]-alkane s useful as uro-selective .alpha.1-adrenoceptor blockers](http://patft.uspto.gov/netacgi/nph-Parser?Sect1=PTO2&Sect2=HITOFF&p=1&u=%2Fnetahtml%2FPTO%2Fsearch-bool.html&r=32&f=G&l=50&co1=AND&d=PTXT&s1=anita&s2=mehta&OS=anita+AND+mehta&RS=anita+AND+mehta)   |  |  | | --- | --- | |  | **US patent 6,410, 735 ( Issued June 2002,** one of the inventors is Anita Mehta, patent was **assigned to Ranbaxy)**[1-(4-arylpiperazin-1-y1)-.omega.-[N-(.alpha.,.omega.-dicarboximido)]-alkane s useful as uro-selective .alpha.1-adrenoceptor blockers](http://patft.uspto.gov/netacgi/nph-Parser?Sect1=PTO2&Sect2=HITOFF&p=1&u=%2Fnetahtml%2FPTO%2Fsearch-bool.html&r=34&f=G&l=50&co1=AND&d=PTXT&s1=anita&s2=mehta&OS=anita+AND+mehta&RS=anita+AND+mehta) | | |

Publications:

[A general and efficient synthesis of 3,6-diazabicyclo [ 3.2.1.] octanes, Tetrahedron, 48, 1992,4985](https://sitebuilder.intuitwebsites.com/~site/builder/stage.jsp?pageId=x52656c6576616e742d5075626c69636174696f6e732e787066)

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[A simple and efficient synthesis of 8- methyl- 3,8-diazabicyclo [3,2,1] octane (azatropane) and   3- substituted azatropanes therefrom using pyroglutamic acid, Tetrahedron Letters, vol 48, 4, 22,545-548.](https://sitebuilder.intuitwebsites.com/~site/builder/stage.jsp?pageId=x52656c6576616e742d5075626c69636174696f6e732e787066)

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