

Synthesis and Properties of *Biagra* [1].

A 5-(2,3-Dihydro-7-benzofuryl) Analog of *Viagra*[®]

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Dihydrobezofuryl-pyrazolo[4,3-d]pyrimidin-7-one, *Viagra*[®] Analog, Erectogenic Activity

The synthesis and spectral properties (IR, MS, NMR) of a substituted 5-(2,3-dihydro-7-benzofuryl)pyrazolo[4,3-d]pyrimidin-7-one (**2**), an analog of *Viagra*[®] (**1**), are described. The generally applicable route involves interaction of 2,3-dihydro-7-benzofuranoyl chloride (**3**) with 4-amino-1-methyl-3-propyl-5-pyrazolecarboxamide (**4**), and the resulting bis-amide (**5**) is cyclized to the corresponding substituted pyrazolo[4,3-d]pyrimidin-7-one (**6**). Chlorosulfonylation of **6**, followed by treatment with 1-methylpiperazine, furnished the title compound **2** (named *Biagra*). Preliminary experiments “associated with the erectile process” on rats lend evidence of greater potency of *Biagra* (**2**) as compared to *Viagra*[®] (**1**).