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Pyrazinyl ureas revisited: 1-(3-(Benzyloxy)pyrazin-2-yl)-3-(3,4-dichlorophenyl)urea, a new blocker of Aβ-induced mPTP opening for Alzheimer's disease

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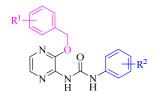
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ACCEPTED MANUSCRIPT

Graphical Abstract:



6 derivatives

	Increased g/r ratio (%)
$I : R^1 = H, R^2 = 2-F$	132
$II : R^1 = H, R^2 = 3-F$	111
III: $R^1 = 3$ -F, $R^2 = H$	69
$IV : R^1 = 3-F, R^2 = 3-F$	98
$V : R^1 = 3-F, R^2 = 3-C1, 4-C1$	101
$VI : R^1 = 3-F, R^2 = 4-Me$	96

All reported pyrazinyl ureas (Non active)

Various substitution patterns on the benzyloxy moiety

Current study

Structural modifications

N O O R2

Comprehensive substituion investigation iclude: alkyl, cycloalkyl, aromatic, 1-methylpiperazinyl, piperazinyl moities

Pyrazinyl urea scaffold reassessment against mPTP opening activity

1-28

Newly synthesized active pyrazinyl ureas

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