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4-Phenylureido/thioureido-substituted 2,2-dimethylchroman analogs of cromakalim bearing a bulky 'carbamate' moiety at the 6-position as potent inhibitors of glucose-sensitive insulin secretion

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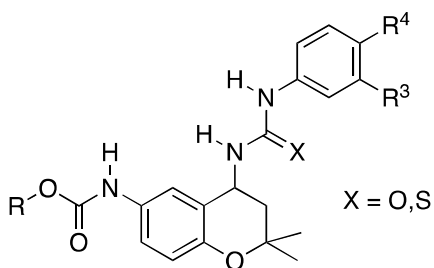
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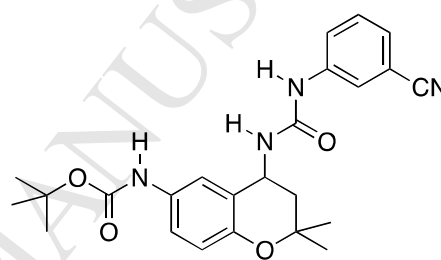
Graphical abstract



$R = CH_3, CH_2CH_3, CH(CH_3)_2, C(CH_3)_3$

when $R^3 = H, R^4 = Cl$ or CN

when $R^4 = H, R^3 = Cl$ or CN



14o (BPDZ 711)

Inhibition of insulin secretion: $IC_{50} = 0.24 \mu M$

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