

**Title:**

**One-pot synthesis and regulation of the blood sugar of 1,2,4-triazoles derivatives**

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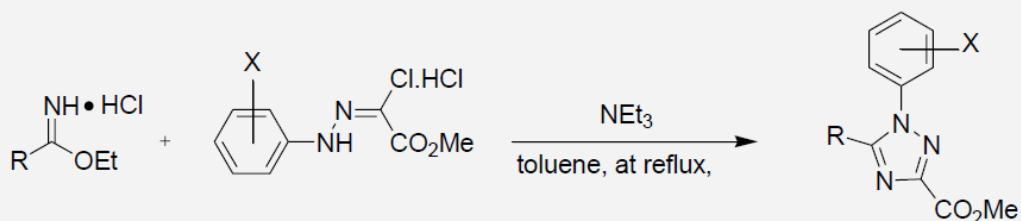
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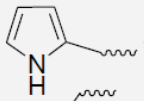
*E-mail address: wongfungfuh@yahoo.com.tw.*


**Abstract:** (Your abstract must use Normal style and must fit in this box. Your abstract should be no longer than 300 words. The box will 'expand' over 2 pages as you add text/diagrams into it.)

Based on the structure of Sitagliptin®, we designed and explored a series of 1,2,4-triazole derivatives via an one-pot synthesis by using ethyl imidate with hydrazonoyl hydrochlorides. Following the preliminarily structure and relationship result, we found 1,2,4-triazole derivatives containing 3-thienyl group have best anti-diabetes agent.



$X = \text{H}, p\text{-F}, p\text{-Cl}, p\text{-Me}, p\text{-OMe}, p\text{-CF}_3, \text{R} = \text{Me}, \text{Ph}$

$X = p\text{-F}, \text{R} =$ 

,  $\text{IC}_{50} = 5 \text{ uM}$  for dipeptidyl peptidase IV

$X = p\text{-CF}_3, \text{R} =$ 

,  $\text{IC}_{50} = 10 \text{ uM}$  for dipeptidyl peptidase IV

