

# Accepted Manuscript

Identification of 3-substituted-6-(1-(1*H*-[1,2,3]triazolo[4,5-*b*]pyrazin-1-yl)ethyl)quinoline derivatives as highly potent and selective mesenchymal-epithelial transition factor (c-Met) inhibitors via metabolite profiling-based structural optimization

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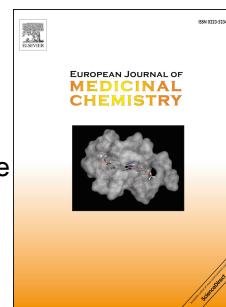
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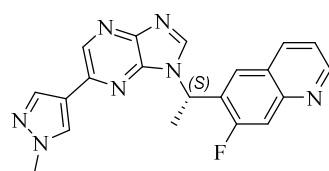
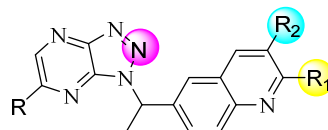
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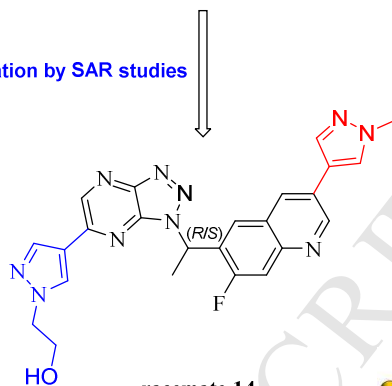
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**compound 1**IC<sub>50</sub> = 1.45 nM (enzyme)IC<sub>50</sub> = 24.7 nM (H1993)IC<sub>50</sub> = 11.8 nM (SNU-5)Metabolite profiling-based  
structural optimization

Filtration by SAR studies

**racemate 14**IC<sub>50</sub> = 0.6 nM (enzyme)IC<sub>50</sub> = 1.1 nM (H1993)IC<sub>50</sub> = 2.0 nM (SNU-5)T<sub>1/2</sub> = 3.7 h *F* = 12.1%**Xenograft models**

H1993 TGI (10mg/kg): 90.8%

SNU-5 PTR (3mg/kg): 87.9%

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