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Search for factors affecting antibacterial activity and toxicity of 1,2,4-triazole-ciprofloxacin hybrids

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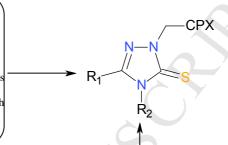


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Search for factors affecting antibacterial activity and toxicity of 1,2,4-triazole-ciprofloxacin hybrids

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- primary effect on antibacterial activity
- the presence of a phenyl ring is essential for strong antibacterial effect
- EDGs on a phenyl ring are more favourable than EWGs
- negative correlation between the alkyl substituent length and antibacterial activity



- · secondary effect on antibacterial activity
- the presence of a phenyl ring is not indispensable for strong antibacterial effect
- negative correlation between the alkyl substituent length and antibacterial activity
- the presence of methylene linker (between triazole and phenyl rings) increases toxicity against human cells

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