Title	Isoxazolopyrimidinthione and isoxazolopyridopyrimidinthione derivatives: Key intermediates for synthesis of novel fused triazoles as potent 5α-reductase inhibitors and anti-prostate cancer
Authors	Sobhi M. Gomha, **Mohamed G. Badry** and Mohamed M. Abdalla,
Journal Info.	Journal of Heterocyclic Chemistry, 2016, 53, 558-565.
ISSN	Online ISSN : 1943-5193.
Impact factor	0.893

Abstract

The arylideneisoxazolone derivative 1 is used for preparation of two different pyrimidinethiones 3 and 5 through interaction with thiourea and thiouracil, respectively. Compounds 3 and 5 were subjected to reaction with different hydrazonyl halides in basic medium to afford different triazolopyrimidines 9a–h and 13a–f, the structures were confirmed by their spectral and elemental analysis. All the newly synthesized products were screened against 5α-reductase. Some of the newly synthesized compounds showed potent 5α- reductase inhibition activities with good ED50.