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(57) Abstract :

The present invention belongs to the field of pharmaceutical science. More, particularly the invention pertains to synthesis novel compound novel compound 2-(2,3-diphenyl-1H-indol-1-yl)benzothiazole. The novel process involved charging a Schleck tube equipped with a stir-bar with N-phenylbenzo[d]thiazol-2-amine (0.05 g, 0.22mmol), diphenylacetylene (0.039 g, 0.22 mmol), & DCE as a solvent, purging the reaction tube with argon, adding [Ru(p-cymene)Cl₂]₂ (0.007 g, 0.01mmol), AgSbF₆ (0.015 g, 0.04 mmol), Cu(OAc)₂ (0.04 g, 0.22mmol) to the reaction mixture after 5-10 min followed by argon purging, stirring the mixture at 120oC for 12 hrs, cooling the mixture at room temperature, passing the reaction mixture through celite bed and concentrated under reduced pressure and purifying the mixture by silica gel chromatography (EtOAc: Hexane) to yield the desired product.

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