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Synthesis Of Chromeno Oxadiazole Derivatives

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ABSTRACT

2H-3-chromene cyanides react with $NH_2OH.HCl$ in presence of triethyl amine in ethanol yields 2H-chromene-3-amidoximes, which on reaction with chloroacetyl chloride in presence of DIPEA gave 3-[5-(chloromethyl)-1,2,4-oxadiazol-3-yl] 2H-chromenes. These on reaction with morpholine, piperidine and pyrrolidine afforded 3-[5-(morpholinomethyl/ piperidinomethyl/pyrrolidinomethyl)-1,2,4-oxadiazol-3-yl] 2H-chromenes in good yields.

Keywords: 2*H*-chromene-3-cyanides, 2*H*-chromene-3-amidoximes, DIPEA, cyclic secondary amines, chromeno oxadiazole.
