R. Surendrakumar et al., Med chem 2013, 3:4
http://dx.doi.org/10.4172/2161-0444.S1.009

OMICS Group Conferences
Accelerating Scientific Discovery

2nd International Conference on
Medicinal Chemistry & Computer Aided Drug Designing

October 15-17, 2013 Hampton Inn Tropicana, Las Vegas, NV, USA

Analgesic activity of some new 1,4-dihydropyridine derivatives

R. Surendrakumar and A. Idhayadhulla
Shivani Engineering College, India

1,4-dihydropyridine derivatives display a broad spectrum of medicinal activities, mainly analgesic activity . The present investigation involves synthesis of novel 1,4-dihydropyridine derivatives (2a-2g) by the amination method. The synthesized compounds were confirmed by IR, ^{1}H NMR, ^{13}C NMR, mass spectra and mass spectral fragmentation. The reaction was performed by using ordinary condensation type, which enabled to easy work-up and good yield. The synthesized compounds were carried out for analgesic activity. Compounds (2a-2g) were screened for analgesic activity. Our results demonstrate compound 2b is moderate active (60 min) at dose (10 mg/ kg) against standard and the compound 2c is highly active (60 min) at dose (10 mg/ kg), other compounds are less active compared with standard. Pentagocine was used as a standard.

suren_chem@yahoo.co.in