

IIIM-209 & 211:

These lead molecules belong to nitrofuranyl methylpiperazine class obtained through whole cell screening approach. IIIM-209 & 211 have shown potent active against replicating (sensitive), non-replicating and resistant strains of MTB. It possesses excellent physicochemical properties (solubility, Log P, pKa, permeability). IIIM-209 & 211 shows very good solubility profile in both aqueous and biological media (H₂O, PBS, SGF, and SIF) and acceptable oral pharmacokinetic exposure. These lead molecules are presently under in-vivo study in mice model. Further safety studies including acute toxicity and genotoxicity studies are in progress.