



Synthesis and Anti-Inflammatory Activity of 2-{{3-(Trifluoromethyl) Phenyl} Amino} N, N'-Bis (Aryl) Pyridine-3-Carboximidamide

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SUMMARY. A novel compounds of 2-{{3-(trifluoromethyl) phenyl} amino} N, N'-bis (aryl) pyridine-3-carboximidamide (**PJS1-PJS6**) were synthesized by condensation of niflumic acid with aromatic amines using most reactive Lewis reagent: polyphosphoric acid trimethyl silyl ester (PPSE). These compounds were characterized by IR, ¹H-NMR, HRMS-FAB and elemental analysis and evaluated for anti-inflammatory activity using carageenin-induced rat paw oedema method. Compound **PJS 5** showed significant activity exhibiting comparable reduction in edema.

KEY WORDS: Anti-inflammatory activity, Niflumic acid, Polyphosphoric acid trimethyl silyl ester (PPSE).

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