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Process for the preparation of amorphous form of N-[5-(3,5-difluorobenzyl)-1H-indazol-3-yl]-4-(4-methylpiperazin-1-yl)-2-(tetrahydro-pyran-4-yl-amino)-benzamide

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Title: Process for the preparation of amorphous form of N-[5-(3,5-difluorobenzyl)-1H-indazol-3-yl]-4-(4-methyl-piperazin-1-yl)-2-(tetrahydro-pyran-4-yl-amino)-benzamide.

This report is related to a process for the preparation of amorphous form of N-[5-(3,5-difluorobenzyl)-1H-indazol-3-yl]-4-(4-methyl-piperazin-1-yl)-2-(tetrahydro-pyran-4-yl-amino)-benzamide.

Examples:

Example-1: Process for the preparation of amorphous form of N-[5-(3,5-difluorobenzyl)-1H-indazol-3-yl]-4-(4-methyl-piperazin-1-yl)-2-(tetrahydro-pyran-4-yl-amino)-benzamide.

N-[5-(3,5-difluorobenzyl)-1H-indazol-3-yl]-4-(4-methyl-piperazin-1-yl)-2-(tetrahydro-pyran-4-yl-amino)-benzamide (10 g) was dissolved in dimethylformamide (250 ml). Filtered the solution to make it particle free and subjected for spray drying to form amorphous N-[5-(3,5-difluorobenzyl)-1H-indazol-3-yl]-4-(4-methyl-piperazin-1-yl)-2-(tetrahydro-pyran-4-yl-amino)-benzamide. The obtained compound was dried under vacuum at 60 °C for 24 hours.

Procept Lab model parameters -

- **Applied feeding rate** - 6 g/min.
- **Inlet and outlet temp.**- 150 °C and 78 °C
- **Nozzle gas pressure** – 2 bar
- **Gas flow rate** – 0.8 m³/min.
- **Nozzle tip diameter** – 0.5 mm

Drawings:

Fig-1: Amorphous form of N-[5-(3,5-difluorobenzyl)-1H-indazol-3-yl]-4-(4-methyl-piperazin-1-yl)-2-(tetrahydro-pyran-4-yl-amino)-benzamide.

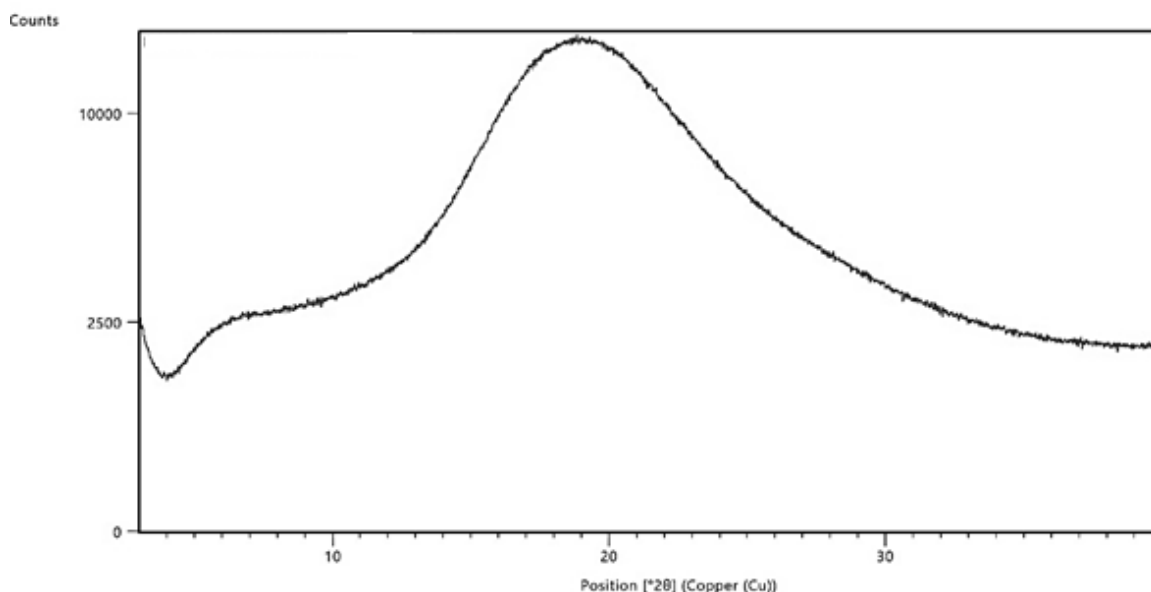


Figure-1