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Injection moulded controlled release amorphous solid dispersions: Synchronized drug and polymer release for robust performance

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Supporting Information

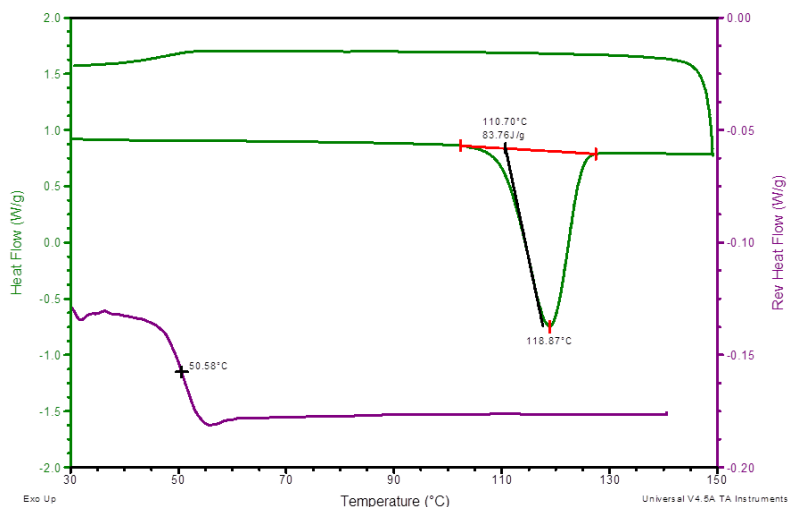


Figure S1. Melting enthalpy and glass transition temperature (T_g) of AZD0837 freebase determined by Modulated DSC using standard aluminium pans using a procedure including; i) equilibration at 25°C and ii) ramp 5.00°C/min to 150.00°C using modulation $\pm 1.00^\circ\text{C}$ every 60 s and isothermal for 5.00 min.

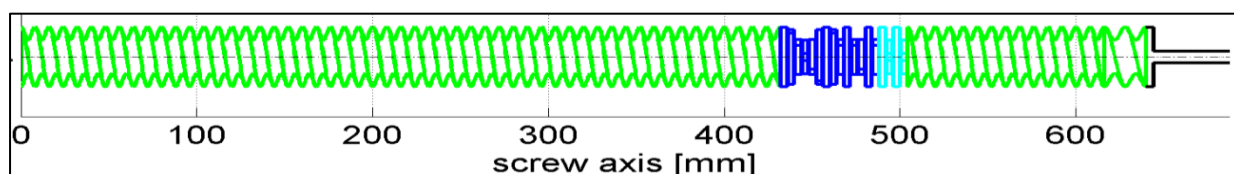


Figure S2. Extruder screw configuration used for hot melt extrusion manufacturing of all the formulations

Table S1. Screw configurations (feed to discharge)

Length (D) ^a	Element type
27	Forwarding
2.25	30°
1.25	60°
1	90°
7	Forwarding
1.5	Discharge

^a Diameter of extruder barrel is 16mm

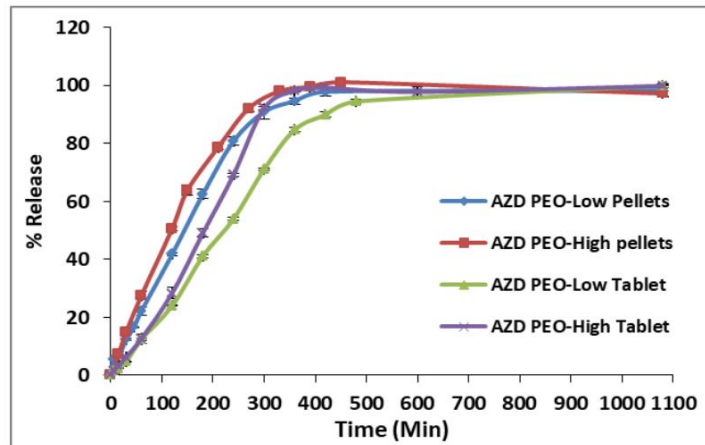


Figure S3. Dissolution of the melt extruded pellets and IM tablets for all the formulation using USP apparatus II set-up with a paddle (37°C in 900mL 0.05M phosphate buffer pH 6.8). No sinkers were used during this study.