CLAIMS:

1. A blister package comprising a blistered base sheet comprising one or more cavities having a void configured to house a cartridge containing a pharmaceutical formulation comprising a diketopiperazine and an active ingredient, ~~and~~ wherein the cartridge is configured to have a pre-dosing configuration and a dosing configuration, and wherein the void includes a dome structure configured to accommodate a container and a shelf configured to accommodate a cartridge lid or top;

a lid bonded to said blister package;

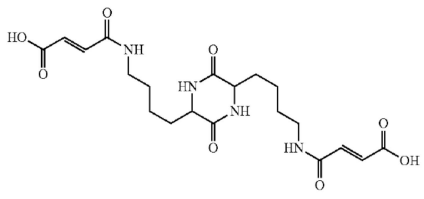
wherein the one or more cavities have an exterior surface and interior surface, and wherein the shelf includes an indentation in the exterior surface that is configured with the dome structure to hold the cartridge in the pre-dosing configuration and not allow the cartridge to attain the dosing configuration~~-~~.

2. The blister package of claim 1, wherein the indentation is a cartridge top retaining feature in the interior surface of the cavities.

3. The blister package of claim 1, wherein the shelf extends from the dome structure and forms a substantially flat end of the one or more cavities and said indentation which forms a cartridge retaining feature in the interior surface of the one or more cavities.

4. The blister package of claim 1, wherein the cartridge lid or top extends over the container.

5. The blister package of claim 1, wherein the diketopiperazine has a formula



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6. The blister package of claim 1, wherein the active ingredient is a peptide, protein, a small molecule or a nucleic acid.