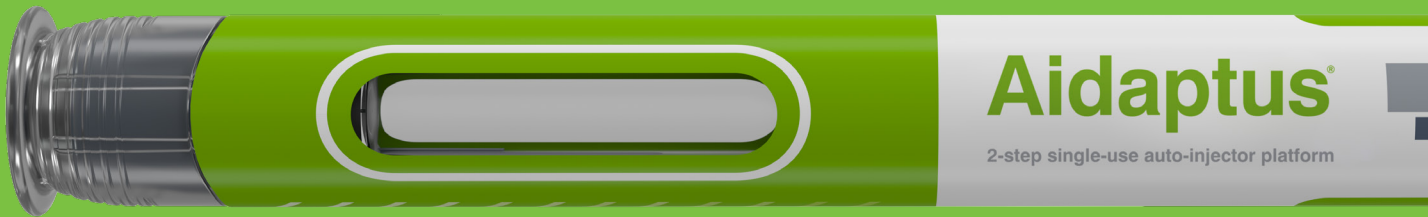


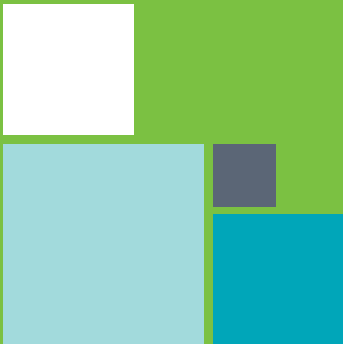
Aidaptus[®]

2-step single-use auto-injector platform

Versatile design
intuitive delivery



A global leader in auto-injectors, we bring you our next generation product



 **OWEN MUMFORD**
Pharmaceutical Services

Aidaptus[®] overview

Aidaptus[®] combines innovative patient-centric design and novel technologies delivering a device with clear features and benefits.

Small, discreet, lightweight design, enables user to incorporate into daily routine.



Audible feedback via a 'click' at the start and end of injection.



Visual feedback via a **bright yellow** plunger rod visible through a large window.



Ergonomic cap for **ease of use with multiple RNSs**.



Anti-roll feature, **helps convenience.**



Patented technology gives **true platform benefits** in robustness and also reduced time to market, cost and risk.



Independent 2 phase needle insertion and drug delivery, **limiting impact forces on the syringe, which reduces risk of syringe breakages.**



Automatic needle insertion and drug delivery which enables consistency of injection experience.



Automatic needle shielding before, during and after use, **helps with needle phobia.**



Introducing Aidaptus[®] versatility

Aidaptus[®] is a 2-step single use auto-injector platform, with a versatile design and intuitive drug delivery.

Aidaptus[®] accommodates both 1mL and 2.25mL glass syringes in the same device, and dynamically adapts to different fill volumes with no changed parts using auto-adjust plunger technology.

Aidaptus[®] is suitable for reducing risk during drug development and lifecycle management, if the drug formulation has to change - this device doesn't.

Aidaptus[®] Specifications

Needle safety	Automatic needle shielding with needle hidden before, during & after use	Needle insertion	Automatic
Primary container/ syringe type	1mL small round and cut/cropped flange (ISO standard) <ul style="list-style-type: none"> BD Hypak, BD Neopak, Gerresheimer, Nipro, SG Nexa[®] 2.25 mL small round flange (ISO standard) <ul style="list-style-type: none"> BD Hypak, BD Neopak, SG Nexa[®]. 	Start and end of dose notification	End of dose click (>70Db at 1m)
Fill Volume	<ul style="list-style-type: none"> 1mL: 0.3 - 1.0mL * 2.25mL: 0.5 - 2.0mL* Adapts to a range of different drug fill volumes with no changed parts, with a self-adjusting plunger. <small>*includes air bubble and overfill</small>	Weight	28g (without syringe)
Needle type and gauge	27G STW, 29G TW	Dimensions	H = 162mm (cap on) W=18mm
Needle insertion depth (subcutaneous)	1mL = 6.5mm 2.25 mL = 6.3mm Syringe dependent	Component count	1mL = 11 plastic components, 3 springs, 2 metal pressings 2.25mL = 10 plastic components, 3 springs, 2 metal pressings
Injection angle	90°		

Aidaptus®: Intuitive delivery. Patient benefits

Ease of use

- Small discreet lightweight design
- Tamper evident cap design
- Ergonomic cap for ease of RNS removal
- Simple 2-step intuitive usage: remove cap, position and depress to inject
- Automatic needle insertion and drug delivery
 - Enables consistency of injection experience

Patient confidence and reassurance

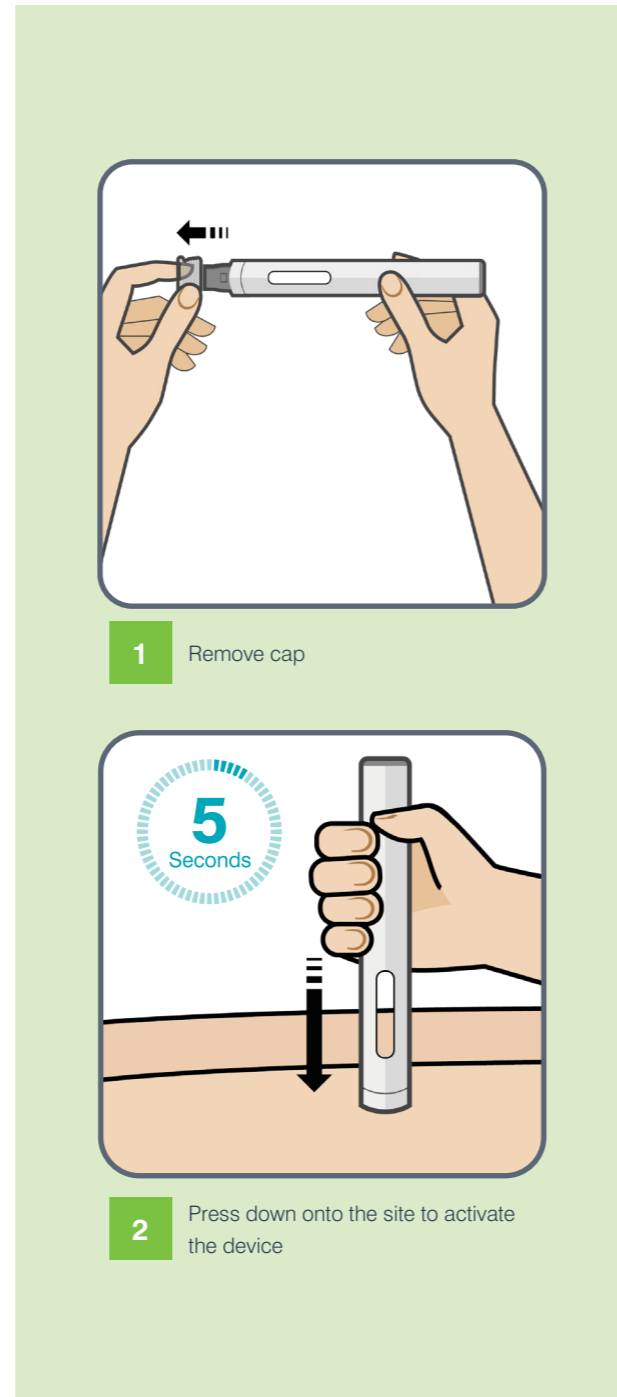
- Clear drug visibility via large device window aids dose checking
- Designed to prevent needlestick injuries with passively deployed complete needle shielding
- Provides reassurance for needle phobic patients with needle hidden before, during and after use
- Audible and visual notifications to provide clear feedback to the user

Human Factors Testing*

- All patients were able to handle the device
- No unforeseen usability issues
- No difference in device variants tested



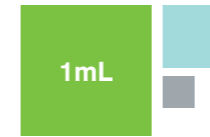
*OM HF study 01/20 n =39 mixed patient types including MS and RA and HCPs



Fill Volume Flexibility

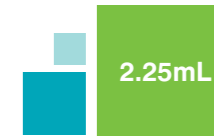
Aidaptus® dynamically adapts to a range of different drug fill volumes with no changed parts, using **auto-adjust plunger technology**

Your fill volume may change, with Aidaptus® your auto-injector doesn't need to



Can readily adapt to a range of drug fill volumes with no change parts.

0.3mL – 1mL*



Can readily adapt to a range of drug fill volumes with no change parts.

0.5mL - 2.0mL*



* In addition to an air bubble & overflow

Accommodates both 1mL and 2.25mL glass syringes in the same device.



Aidaptus[®] versatility; Branding and customisation

Aidaptus[®] is available in two base platform options: a clear outer body or opaque solid housing. This provides you with versatility for branding and customisation as well as options for market segmentation and lifecycle management.

OPTION 1

Colour Wrap

Body of device is transparent

- Fill volume flexibility
- Simple branding and customisation
- Speed to market



OPTION 2

Coloured Moulded Components

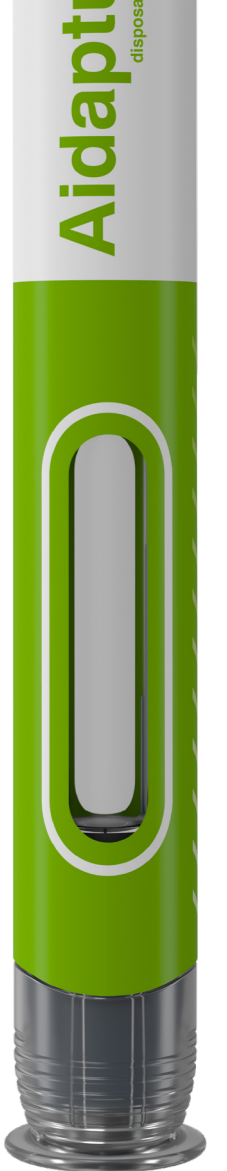
Body of device is moulded in a colour
Opaque, with window aperture

- Customise component colour
- Base geometry unchanged
- Full customisation

Aidaptus[®]

Provides flexibility in drug development, clinical trials and lifecycle management.

- ✓ **Flexible**
Accommodates both 1mL and 2.25mL glass syringes in the same device and dynamically adapts to different fill volumes with no changed parts using auto-adjust plunger technology.
Reduces complexity and risk in supply chain, and final assembly.
- ✓ **Drug Development and Lifecycle Management**
Aidaptus[®] is especially suitable for reducing risk during drug development and lifecycle management, if the drug formulation has to change - this device doesn't.
- ✓ **Fast to Market**
Minimal change parts for platform capability, which reduces risk.
- ✓ **Versatile**
Simple effective branding and customisation options.
- ✓ **Robust**
Independent 2 phase needle insertion and drug delivery, limiting impact forces on the syringe, which reduces risk of syringe breakages.
- ✓ **Intuitive**
2-step use, automatic needle insertion, simple steps for use.
- ✓ **Partnership**
Owen Mumford Pharmaceutical Services have a proven track record and broad experience of auto-injector development, manufacture and supply.



Aidaptus®
disposable auto-injector

Aidaptus®

Versatile design intuitive delivery

Owen Mumford Pharmaceutical Services supporting
your combination product development

- Design, development & manufacturing
- Labelling & Packaging
- HF studies
- Intellectual Property
- Regulatory support
- MRHA drug licence
- Final assembly



pharmaservices@owenmumford.com
+44 (0) 1993 812 021
[ompharmaservices.com/explore-aidaptus](https://www.owenmumford.com/pharmaservices.com/explore-aidaptus)

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