SiroMime
TECHNICAL SPECIFICATIONS

STENT

Stent material	**Cobalt chromium L605**
Strut thickness	**65 µm (0.065 mm)**
Stent architecture	**Hybrid cell design with non-linear links**
Stent diameters	**2.00, 2.25, 2.50, 2.75, 3.00, 3.50, 4.00, 4.50 mm**
Stent lengths	**8, 13, 16, 19, 24, 29, 32, 37, 40, 44, 48 mm**
Mean recoil	**≤ 4.0 %**
Mean foreshortening	**≤ 1.0 %**

DRUG & POLYMER

Drug	**Sirolimus**
Equivalent drug dose	**1.25 µg/mm²**
Polymer	**PLLA + PLGA — biodegradable and biocompatible**

DELIVERY SYSTEM

Delivery system	**Rapid exchange (Rx)**
Nominal pressure	**9 atm**
Rated burst pressure	**16 atm; 14 atm for 4.50 mm diameter (all lengths) and for all diameters with length > 40 mm**
Balloon overhang	**≤ 0.5 mm**
Shaft outer diameter	**Proximal 2.13 F · Distal 2.7 F**
Radiopaque markers	**Two platinum-iridium markers**
Usable catheter length	**142 cm**
Guide catheter compatibility	**5 F (minimum ID 0.056" / 1.42 mm)**
Maximum guidewire	**0.014" (0.36 mm)**
Tip entry profile	**0.016"**
Elongated distal tip	**7.00 ± 0.5 mm**

CROSSING PROFILE BY STENT DIAMETER

Stent diameter (mm)	Crossing profile
2.00	0.83 mm / 0.033"
2.25	0.85 mm / 0.033"
2.50	0.91 mm / 0.036"
2.75	0.98 mm / 0.039"
3.00	0.99 mm / 0.039"
3.50	1.06 mm / 0.042"
4.00	1.16 mm / 0.046"
4.50	1.19 mm / 0.047"

SiroMime
ORDERING INFORMATION

Ordering information with all ordering codes is given on the following page.

KMD INDIA
KEPLER MEDICAL DEVICES PVT. LTD.
ADVANCING SCIENCE FOR LIFE

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Kepler Medical Devices Private Limited

Supplied sterile, for single use only. Read the Instructions for Use supplied with the device before use for indications, contraindications, warnings and precautions. Specifications are subject to change without notice.

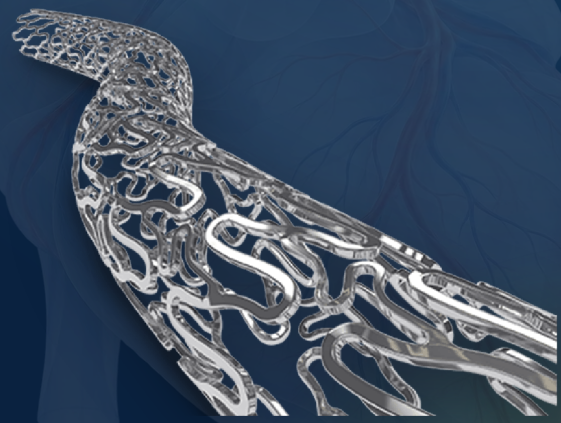
KMD/CAT/SIROMIME/R00 · November 2026

KMD INDIA
KEPLER MEDICAL DEVICES PVT. LTD.
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DRUG-ELUTING STENTS

SiroMime

Sirolimus-eluting coronary stent system



Engineered to Deliver.
Designed to Heal.

DRUG-ELUTING STENTS · SIROLIMUS-ELUTING STENTS

SiroMime

SiroMime is Kepler's core sirolimus-eluting coronary stent system and the base platform of the SiroMime family. A 65 µm cobalt-chromium (L605) scaffold with a hybrid cell design carries sirolimus on a biodegradable PLLA + PLGA polymer.

The stent is delivered on a monolithic rapid-exchange catheter with a reinforced hypotube and an elongated distal tip. Diameters from 2.00 to 4.50 mm and lengths from 8 to 48 mm cover routine and long coronary segments.

Key features

65 µm cobalt-chromium scaffold
The same thin-strut thickness is used across all sizes.

Hybrid cell design
Closed cells at the ends and open cells in the mid-section, joined by non-linear links.

Sirolimus at 1.25 µg/mm²
Delivered from a biodegradable PLLA + PLGA polymer coating.

Expansion follows vessel morphology
The cell geometry is designed to conform to the vessel during expansion.

Monolithic Rx delivery system
Reinforced hypotube with 0.016" tip entry and a 7.00 ± 0.5 mm elongated tip.

Wide size matrix
8 diameters × 11 lengths.

Design & technology

Product design & architecture

Hybrid cell geometry — closed cells at both stent ends and open cells through the mid-section — joined by non-linear S-links and Y-connectors, with varying strut width along the ring.

- Closed end cells for edge scaffolding
- Open mid-section cells for flexibility and side-branch access
- Non-linear links between rings
- Mean recoil ≤ 4.0 %; mean foreshortening ≤ 1.0 %

Stent technology

Cobalt-chromium L605 supports a 65 µm (0.065 mm) strut with the radial strength and visibility needed across the 2.00–4.50 mm range.

- Material: cobalt chromium L605
- Strut thickness: 65 µm (0.065 mm)
- Diameters 2.00–4.50 mm; lengths 8–48 mm

Drug & polymer technology

Sirolimus is released from a biodegradable, biocompatible PLLA + PLGA polymer. Once the drug has eluted, the polymer degrades.

- Drug: sirolimus
- Dose: 1.25 µg/mm² of stent surface
- Polymer: PLLA + PLGA, biodegradable and biocompatible

Delivery system

A monolithic rapid-exchange catheter with a reinforced hypotube is designed for pushability and kink resistance. The elongated distal tip eases lesion entry.

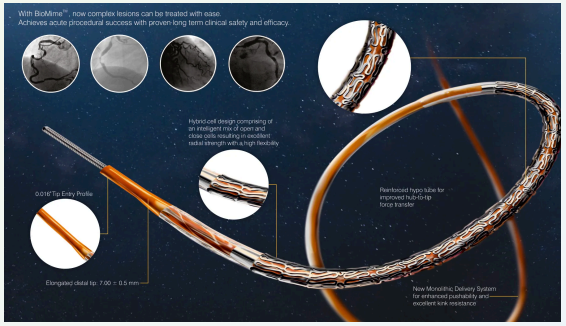
- Rx, 142 cm usable length
- Nominal 9 atm; rated burst 16 atm (14 atm for 4.50 mm and for lengths > 40 mm)
- 0.016" tip entry; 7.00 ± 0.5 mm elongated tip
- 5 F guide compatible; 0.014" guidewire

Product highlights

- Stent material: Cobalt chromium L605
- Strut thickness: 65 µm (0.065 mm)
- Stent architecture: Hybrid cell design with non-linear links
- Stent diameters: 2.00, 2.25, 2.50, 2.75, 3.00, 3.50, 4.00, 4.50 mm
- Stent lengths: 8, 13, 16, 19, 24, 29, 32, 37, 40, 44, 48 mm
- Mean recoil: ≤ 4.0 %
- Mean foreshortening: ≤ 1.0 %

Intended use

SiroMime is intended for improving coronary luminal diameter in patients with symptomatic ischaemic heart disease due to de novo and restenotic lesions in native coronary arteries.



Stent and delivery-system architecture

SiroMime
ORDERING INFORMATION (CONTINUED)

Stent diameter (mm) \ Length (mm)	8	13	16	19	24	29	32	37	40	44	48
2.00	—	BIO20013	BIO20016	BIO20019	BIO20024	BIO20029	BIO20032	BIO20037	BIO20040	BIO20044	BIO20048
2.25	BIO22508	BIO22513	BIO22516	BIO22519	BIO22524	BIO22529	BIO22532	BIO22537	BIO22540	BIO22544	BIO22548
2.50	BIO25008	BIO25013	BIO25016	BIO25019	BIO25024	BIO25029	BIO25032	BIO25037	BIO25040	BIO25044	BIO25048
2.75	BIO27508	BIO27513	BIO27516	BIO27519	BIO27524	BIO27529	BIO27532	BIO27537	BIO27540	BIO27544	BIO27548
3.00	BIO30008	BIO30013	BIO30016	BIO30019	BIO30024	BIO30029	BIO30032	BIO30037	BIO30040	BIO30044	BIO30048
3.50	BIO35008	BIO35013	BIO35016	BIO35019	BIO35024	BIO35029	BIO35032	BIO35037	BIO35040	BIO35044	BIO35048
4.00	BIO40008	BIO40013	BIO40016	BIO40019	BIO40024	BIO40029	BIO40032	BIO40037	BIO40040	BIO40044	BIO40048
4.50	BIO45008	BIO45013	BIO45016	BIO45019	BIO45024	BIO45029	BIO45032	BIO45037	BIO45040	BIO45044	BIO45048

- 87 sizes: 8 diameters × 11 lengths.

87 configurations · Quote the ordering code when placing an order.