

Product List

Hovione has developed a range of customized particle engineered APIs with superior powder properties and a suite of innovative, highly specialized Device Platforms that are able to address the challenges in your formulation development.

Inhalation

Particle Engineered/Customized APIs

Corticosteroids

PRODUCT	ROUTE OF ADMINISTRATION	CAS NUMBER	CUSTOMIZED PARTICLE SIZE	REGULATORY STATUS
Fluticasone Furoate	∂ Inhalation	397864-44-7	~	CEP, US DMF
Fluticasone Propionate	⊕ Inhalation	80474-14-2	~	CEP, US DMF, JP DMF, CN DMF, KR DMF
Mometasone Furoate Anhydrous	β Inhalation	83919-23-7	~	CEP, US DMF
Mometasone Furoate Monohydrate	∂ Inhalation	141646-00-6	~	CEP, US DMF, CN DMF

LABA/LAMA

PRODUCT	ROUTE OF ADMINISTRATION	CAS NUMBER	CUSTOMIZED PARTICLE SIZE	REGULATORY STATUS
Umeclidinium Bromide	O Inhalation	869113-09-7	~	DEV, TECH PACK
Vilanterol Trifenatate	O Inhalation	503070-58-4	~	GMP, TECH PACK
Salmeterol Xinafoate	Po Inhalation	94749-08-3	✓	CEP, US DMF

Formulation Services

- Carrier-based, composite and carrier-free formulation development
- Generic deformulation and formulation services
- Novel formulation development
- Spray Drying, Jet Milling and Wet Polishing particle engineering capabilities
- API particle customization to tailor formulation performance
- Dry powder inhalation drug product manufacturing:
 - High and low shear powder blending
 - Capsule, reservoir, and blister filling
- Biorelevant analytical formulation testing
- Integrated API, excipient, blending, device and analytical formulation capabilities

Patented Device Platforms

DEVICE	ROUTE OF ADMINISTRATION	TYPE	DOSING	DOSE RANGE	APPLICATIONS
Nasal Powde Device	r 🍶 Nasal	Capsule	Single-use	Up to 40mg	Acute treatments and Rescue therapies
Sunriser® DPI	∂ Inhalation	Capsule	Multi-use	Up to 50mg	Asthma, COPD, Cystic Fibrosis and more
TwinCaps® DPI	P Inhalation	Reservoir	Single-use	Up to 2 x 30mg	Anti-virals, Vaccines, rescue therapies and more
Large Dose DPIs	Po Inhalation	Reservoir	Single-use	Up to 8 x 50mg	Antibiotics, Biologics, Anti-virals and more
PowdAir® DPI	6 Inhalation	Capsule	Reusable	Up to 50mg	Asthma, COPD, Cystic Fibrosis and more
Papillon DPI	0 Inhalation	Blister	Reusable	Up to 50mg	Asthma, COPD, Cystic Fibrosis and more

- Available for integrated formulation-device development, licensing, supply and customization
- Active collaborations with device partners to bring the right dry powder inhalation device for every formulation

From feasibility to commercial







Product List



Oral, Injectable, Topical and Ophthalmic

Security of supply

Hovione provides the peace of mind of a high-quality manufacturer who is a founding member of Rx-360 and has an unblemished regulatory track record.

	ROUTE OF ADMINISTRATION	CAS NUMBER	CUSTOMIZED PARTICLE SIZE	REGULATORY STATUS
Doxycycline Hyclate	Oral Injectable	24390-14-5	~	CEP, US DMF, JP DMF, CN DMF
Doxycycline Monohydrate	Oral	17086-28-1	~	CEP, US DMF
Corticosteroids				
PRODUCT	ROUTE OF ADMINISTRATION	CAS NUMBER	CUSTOMIZED PARTICLE	REGULATORY STATUS
Betamethasone Acetate	⊙ Ophthalmic	987-24-6	F	US DMF
Betamethasone Disodium Phosphate		151-73-5		US DMF, JP DMF, CA DM
Halobetasol Propionate	<u> </u>	66852-54-8	~	ASMF, US DMF, CA DMF
Hydrocortisone Aceponate	<u> </u>	74050-20-7	~	ASMF & VMF
Antiparasitic		• • •		
PRODUCT	ROUTE OF ADMINISTRATION	CAS NUMBER	CUSTOMIZED PARTICLE SIZE	REGULATORY E STATUS
Ivermectin	Oral Opical	70288-86-7		CEP, US DMF, JP DMF
Excipients				
PRODUCT	ROUTE OF ADMINISTRATION		CUSTOMIZED PARTICLE SIZE	REGULATORY STATUS
DTPA (Pentetic Acid)		67-43-6		GMP, TECH PACK, CN DMI
High-purity, cGMP-compliant chela as a biopharmaceutical excipient a in radiopharmaceutical application	nd bioprocessing chemical			

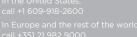
Drug Delivery Expertise

- Solubility Enhancement Platforms:
 - ASD-HIPROS, Dispersome®
- Sustained Release
- Ophthalmic
- Inhalation and Nasal

Manufacturing Services

- Integrated offer: from chemical synthesis to drug product manufacturing
- Bottom-up and Top-down particle engineering by:
 - Spray drying, Spray congealing, Hot melt extrusion, Co-precipitation, Crystallization and Milling
- · Batch tableting and precision capsule filling
- Continuous Tableting

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