

## Hovione

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# INGREDIENTS and Materials



## Hovione

### Corporate Description

Hovione is a global company with over 50 years' experience in Active Pharmaceutical Ingredient and Drug Product Intermediate development and compliant manufacture. With four FDA inspected sites in the US, Ireland, Portugal and China, the company focuses on the most demanding customers, in the most regulated markets. Hovione has successfully taken projects through QbD filings to NDA approval and commercial launch.

Hovione offers integrated API and services in contract development and commercial manufacture of custom pharmaceutical molecules and drug product intermediates. The Company also undertakes the formulation development and clinical supply of the final dosage form to Phase II. In the inhalation area, Hovione is the only independent company offering such a broad range of services.

Offering a series of platform technologies, Hovione provides for the greatest probability of success for a specific drug delivery challenges. The company is one of the very few that offer a series of innovative particle engineering technologies to solve problems such as poor bioavailability, patient acceptability or enabling optimal delivery by non-oral routes of administration. Hovione is unique in providing optimization and scale up to full commercial support and eliminating the delays and costs of an intercompany transfer. We operate using state-of-art methodologies: Process Analytical Technologies (PAT), Quality by Design (QbD), Process Modeling for optimization and scale up along with Lean manufacturing are part of our DNA.

### Technologies

The particle engineering technologies Hovione offers fall into three categories:

- Crystal design (e.g. controlled crystallization, co-crystals)
- Particle size reduction (e.g., jet milling, wet polishing, and nanoparticle generation)



- Amorphous solid dispersions (e.g., spray drying, hot melt extrusion, spray congealing, inclusion complexes).

Hovione has further complemented these services with the formulation of dosage forms and clinical manufacture, and also being able to support highly potent compounds with many of these technologies.

Hovione has the capabilities to develop inhaled drug products from the ground up, starting at the API, with a development strategy that encompasses the molecule, the crystal, the powder and the unit dose, as well as the delivery device. Only with integrated development we can be sure of efficient delivery and a stable product.

Utilizing innovative technologies, and with a global footprint, Hovione is an integrated solution provider to the pharmaceutical industry. Our aim is to provide our customers with solutions for their complex drug delivery concerns.

Hovione employs 1200 people worldwide and has more than 1300m<sup>3</sup> of flexible production capacity.

Please visit [www.hovione.com](http://www.hovione.com)

