

Ancillary Materials for Cell & Gene Therapies



Cell and gene therapies hold promise for the prevention, treatment, or potential cure of many diseases by addressing the cellular or genetic factors underlying these conditions.

Ancillary materials are substances used in the manufacturing of cell and gene therapies but are not intended to be part of the final product. However, they must be manufactured to the highest quality standards as they are critical for safety and quality of the finished therapies.

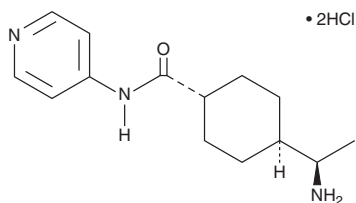
Quality Attributes

Cayman offers two small-molecule quality ranges: Ancillary Material and GMP Ancillary Material grades. These products meet the expectations outlined in USP <1043> Ancillary Materials for Cell, Gene, and Tissue-engineered Products.

Available Small Molecule Ancillary Materials

Y-27632 (hydrochloride)

Y-27632 is a potent, ATP-competitive inhibitor of ROCKs including p160ROCK ($K_i = 140$ nM) and ROCK2 ($IC_{50} = 800$ nM). It also inhibits PRK2 with an IC_{50} value of 600 nM. One-hour treatment with 10 μ M Y-27632 blocks apoptosis of dissociated cultured human embryonic stem cells, increasing cloning efficiency by 25% and sustaining survival up to 30 passages.



Available Formats

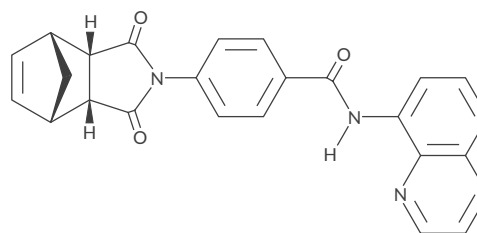
Item No.	Product Name	Grade
44885	Y-27632 (hydrochloride) Ancillary Material	■
44675	GMP Y-27632 (hydrochloride) Ancillary Material	■

■ Ancillary Material: Suitable for clinical trial cell therapy protocols. Tested in alignment with GMP principles.

■ GMP Ancillary Material: Suitable for commercial cell therapy protocols. Manufactured and tested under GMP principles as defined by ICH and FDA guidelines.

IWR-1-endo

IWR-1-endo is an inhibitor of the Wnt signaling pathway that acts *via* inhibition of tankyrases and stabilization of axin. It has been used to maintain proliferation of hematopoietic stem cells, promote pluripotency of human embryonic stem cells, and induce differentiation of progenitor cells.



Available Formats

Item No.	Product Name	Grade
44879	IWR-1-endo Ancillary Material	■
44886	GMP IWR-1-endo Ancillary Material	■

Small Molecule Ancillary Materials Coming Soon

In Development

Item No.	Product Name
Coming Soon	Bucladesine (sodium salt)
Coming Soon	CHIR99021
Coming Soon	SB-431542 (hydrate)

Item No.	Product Name
Coming Soon	DAPT
Coming Soon	A 83-01
Coming Soon	XAV939

Not seeing what you need?

Request a custom size or format, or suggest a new ancillary product
at GMP-API@caymanchem.com



Further Reading

Ancillary materials for cell, gene, and tissue-engineered products.

In: USP-NF/PF. Available from: https://doi.usp.org/USPNF/USPNF_M620_02_01.html



Stem Cell Products for Research Use Only

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