

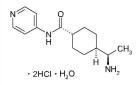


Y-27632

For regenerative medicine research

Y-27632

It is a selective and potent inhibitor of ROCK (Rho-associated coiled-coil forming kinase/Rho binding kinase). Y-27632 has a variety of activities including vascular smooth muscle contraction through the ROCK signaling ($K_i = 140 \text{ nmol/L p160ROCK}$). This product has been reported to suppress death of human ES cells and human iPS cells at the time of cell dispersion, and also improve viability of the cells after cryopreservation.



CAS No. 331752-47-7 C₁₄H₂₁N₃O · 2HCl · H₂O=338.27

CultureSure® Y-27632



CultureSure® Y-27632 has been tested for bacterial endotoxin and mycoplasma. It is suitable for use in cell culture applications.

# Catalog	Package Size	Grade	Storage Condition
030-24021	1 mg	For Cell Culture	Keep at -20℃
036-24023	5 mg		
034-24024	25 mg		
030-24026	100 mg		

SPECIFICATION

Appearance : White~pale yellow, crystalline powder~powder

→ Bacterial endotoxins : less than 0.25EU/mg

CultureSure® 10mmol/L Y-27632 Solution, Animal-derived-free



This product is Y-27632 prepared in water at 10 mmol/L. No animal-derived components are used in the process of manufacturing and as a raw material. It has been filter-sterilized and can be added directly to the culture medium.

# Catalog	Package Size	Grade	Storage Condition
039-24591	300 μL	For Cell Culture	Keep at -20℃
035-24593	1 mL		

SPECIFICATION

Composition : Y-27632 prepared in water at 10 mmol/L

Mycoplasma test : to pass test
Bacterial endotoxins : less than 3EU/mL
Sterility test : to pass test

Y-27632, MF



We have a validation from the production to analysis and manage any changes for consistent, stable and high-quality production.

- Manufactured entirely in Japan, from synthesis to packaging
- No animal-derived materials used

# Catalog	Package Size	Grade	Storage Condition
259-00613	5 mg	For Cell Culture	Keep at -20℃
257-00614	25 mg		

SPECIFICATION

Appearance : White \sim pale yellow, crystalline powder \sim powder

Assay (HPLC) : min.98.0%
 Solubility in water : to pass test
 Specific rotation[a]_D²⁰(c=1.0,CH₃OH) : +2.0~+10.0°
 Mycoplasma test : to pass test
 Bacterial endotoxins : less than 0.25EU/mg
 Viable count test : to pass test

Publications using our products

■ CultureSure® Y-27632

Takahashi, K., et al.: Cell Rep. Methods, 2, 100155 (2022). Yamane, J., et al.: iScience, 25, 104538 (2022).

- and many more

■ CultureSure® 10mmol/L Y-27632 Solution, **Animal-derived-free**

Hiramatsu, N., et al.: Exp. Ther. Med., 24, 539 (2022).

Y-27632, MF

Siriwach, R., et al.: iScience, 25, 104130 (2022). Piantino, M., et al.: Mater. Today Bio, 14, 100232 (2022).

Scan for the latest list of publications.







Reference * Publications using our products

Improved reprogramming efficiency

Watanabe, K., et al.: Nat. Biotechnol., 25, 681 (2007). Martin-Ibanez, R., et al.: Hum. Reprod., 23, 2744 (2008). Kawamata, M., et al.: Proc. Natl. Acad. Sci. USA, 107, 14223 (2010).* Katsuda ,T., et al.: Cell Stem Cell, 20, 41 (2017).*

■ Improved cell viability after cryopreservation Claassen, DA., et al.: Mol. Reprod. Dev., 76, 722 (2009).

Differentiation Induction

Hu, W., et al.: Cell Stem Cell, 17, 204 (2015). Okae, H., et al.: Cell Stem Cell, 22, 50 (2018).*

Spheroid and organoid (3D cell culture)

Ito, H., et al.: Liver Int., 32, 592 (2012). Lancaster, MA., et al.: Nat. Protoc., 9, 2329 (2014). Ayabe, H., et al.: Stem Cell Reports., 11, 306 (2018).* Ogawa, K., et al.: Sci. Rep., 8, 3615 (2018).*



Many other reagents for regenerative medicine research are available. Please visit our website for details.

https://labchem-wako.fujifilm.com/us/category/cell_culture/stem_cell_culture/index.html

Listed products are intended for laboratory research use only, and not to be used for drug, food or human use. / Please visit FUJIFILM Wako Laboratory Chemicals site: https://labchem-wako.fujifilm.com/ / This leaflet may contain products that cannot be exported to your country due to regulations. / Bulk quote requests for some products are welcomed. Please contact us.

FUJIFILM Wako Laboratory Chemicals site https://labchem-wako.fujifilm.com



FUJIFILM Wako Pure Chemical Corporation FUJIFILM Wako Chemicals U.S.A. Corporation 1-2, Doshomachi 3-Chome, Chuo-ku, Osaka 540-8605, Japan

Tel: +81 6 6203 3741 Fax: +81 6 6203 1999 ffwk-cservise@fujifilm.com

1600 Bellwood Road, Richmond, VA 23237, U.S.A. Toll-Free (U.S. only): +1 877 714 1920 Tel: +1 804 271 7677 Fax: +1 804 271 7791

FUJIFILM Wako Chemicals (Hong Kong) Limited Room 1111, 11/F, International Trade Centre, 11-19 Sha Tsui Road,

Tsuen Wan, N.T., Hong Kong Tel: +852-2799-9019 Fax: +852-2799-9808 Tel: +852-2799-9019 Fa wkhk.info@fujifilm.com

wkuslabchem@fujifilm.com

FUJIFILM Wako Chemicals Europe GmbH

Fuggerstr 12, 41468 Neuss, Germany Tel: +49 2131 311 0 Fax: +49 2131 311 100 labchem_wkeu@fujifilm.com

FUJIFILM Wako (Guangzhou) Trading Corporation Room 3003, 30/F., Dong Shan Plaza 69, Xian Lie Zhong Road

Guangzhou, 510095, China Tel: +86-20-8732-6381(Guangzhou) Tel: +86-21-6288-4751(Shanghai) Tel: +86-10-6413-6388(Beijing) wkgz.info@fujifilm.com