ATCC

Product Sheet

PI3K Genetic Alteration Cell Panel (ATCC® TCP-1028™)

Please read this FIRST

Storage Temp.
LN vapor (less than -130°C) only

Biosafety Level
2

Citation of Strain

If use of this culture results in a scientific publication, it should be cited in that manuscript in the following manner: PI3K Genetic Alteration Cell Panel (ATCC® TCP-1028™)

American Type Culture Collection
PO Box 1549
Manassas, VA 20108 USA
www.atcc.org

800.638.6597 or 703.365.2700
Fax: 703.365.2750
Email: Tech@atcc.org

Or contact your local distributor

Description

The Phosphoinositide 3-kinases (PI3Ks) family of enzymes is integral to several signaling pathways that mediate cell proliferation, survival, migration and vesicular trafficking. Member of the PI3K family are frequently mutated or altered in human cancers. For example, gain-of-function mutations in p110α (encoded by the PI3KCA gene) are observed in a variety of common cancers; and, these mutations are exclusively clustered in one of two hotspot regions, (i.e., exon 9 and 20), which correspond to either the helical or kinase domains of the protein (e.g., E545K and H1047R).

The PI3K Genetic Alteration Cell Panel (ATCC TCP-1028) is composed of ten human tumor cell lines from common cancer types that carry hotspot mutations within the PIK3CA gene. The PI3KCA status of each cell line has been sequenced and validated by ATCC. This panel is useful for PI3K pathway research and for anti-cancer drug discovery.

Components

ATCC CCL-225 HCT-15
ATCC CCL-237 SW948
ATCC CRL-1739 AGS
ATCC CRL-2577 RKO
ATCC HTB-112 HEC-1-A
ATCC HTB-121 BT-483
ATCC HTB-131 MDA-MB-453
ATCC HTB-178 NCI-H596
ATCC HTB-19 BT-20
ATCC HTB-27 MDA-MB-361

Propagation

See individual component product sheets.

Biosafety Level: 2

Appropriate safety procedures should always be used with this material. Laboratory safety is discussed in the current publication of the *Biosafety in Microbiological and Biomedical Laboratories* from the U.S. Department of Health and Human Services Centers for Disease Control and Prevention and National Institutes for Health.

ATCC Warranty

The viability of ATCC® products is warranted for 30 days from the date of shipment, and is valid only if the product is stored and cultured according to the information included on this product information sheet. ATCC lists the media formulation that has been found to be effective for this strain. While other, unspecified media may also produce satisfactory results, a change in media or the absence of an additive from the ATCC recommended media may affect recovery, growth and/or function of this strain. If an alternative medium formulation is used, the ATCC warranty for viability is no longer valid.

Disclaimers

This product is intended for laboratory research purposes only. It is not intended for use in humans.

While ATCC uses reasonable efforts to include accurate and up-to-date information on this product sheet, ATCC makes no warranties or representations as to its accuracy. Citations from scientific literature and patents are provided for informational purposes only. ATCC does not warrant that such information has been confirmed to be accurate.

This product is sent with the condition that you are responsible for its safe storage, handling, and use. ATCC is not liable for any damages or injuries arising from receipt and/or use of this product. While reasonable effort is made to ensure authenticity and reliability of strains on deposit, ATCC is not liable for damages arising from the misidentification or misrepresentation of cultures.

Please see the enclosed Material Transfer Agreement (MTA) for further details regarding the use of this product. The MTA is also available on our Web site at www.atcc.org

Additional information on this culture is available on the ATCC web site at www.atcc.org.
© ATCC 2016. All rights reserved. ATCC is a registered trademark of the American Type Culture Collection. [01/28]