COLO-320HSR

305271

GENERAL INFORMATION

Description

COLO-320HSR □胞系来源于人类结肠腺癌，被广泛用于癌症研究，特别是研究结肠直肠癌生物学和治疗反应。该 □胞系是 COLO-320 的一个亚系，表现出 c-myc 癌基因的扩增，c-myc 癌基因在□胞周期调节、□胞凋亡和□胞转化中起着至关重要的作用。COLO-320HSR □胞中 c-myc 的高水平表达使其成为研究癌基因驱动的肿瘤发生机制和开发癌症靶向疗法的绝佳模型。

COLO-320HSR □胞具有上皮形态，其特点是生长迅速且具有致瘤潜能。它们表达典型的结直肠癌标志物，包括癌胚抗原（ CEA）和各种□胞角蛋白。研究人员利用 COLO-320HSR □胞研究结直肠癌进展过程中涉及的分子通路，包括 Wnt/β-catenin、PI3K/Akt 和 MAPK 等信号通路。这些□胞还被用于高通量药物筛选和体外试验，以评估化疗药物和新型靶向疗法的疗效和作用机制。COLO-320HSR □胞系与结直肠癌研究的相关性凸显了它在促进我们对癌症生物学的了解和开发结直肠癌患者有效治疗方法方面的重要性。

Tissue	结肠
Disease	腺癌

Synonyms

- COLO320 HSR
- COLO 320HSR
- COLO 320 HSR

CLASSIFICATION

Organism	Human
Sex	Female
Growth properties	Adherent
Biosafety level	1

CHARACTERISTICS

Morphology	上皮样
Tumourigenic	是，在裸鼠身上

IDENTIFIERS

Citation

COLO-320HSR（Cytion 目录号 305271）

NCBI TaxID	9606
Cellosaurus	CVCL_1989

EXPRESSION AND SUSCEPTIBILITY

Protein expression

羟色胺、去甲肾上腺素、肾上腺素、促肾上腺皮质激素（ ACTH）、甲状旁腺激素

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HANDLING AND CULTURE

Culture medium

RPMI 1640□w□2.0 mM □□□□□□□w□2.0 g/L NaHCO3□Cytion □□□□ 820700a□□

Incubation atmosphere	37°C, 5%CO2, □□□□□

Supplements

□□□□□□□ 10% FBS□□□□ 2.5 g/L □□□□ 10 mM HEPES

Dissociation reagent	Accutase

Subculturing

□□□□□□□□□□□□□□□□□□□□ PBS □□□T25 □□□ 3-5 □□ PBS□T75 □□□ 5-10 □□□□□□ Accutase □□□□□□□T25 □□□ 1-2 □□□T75 □□□ 2.5 □□□□□□□□□□□□ 8-10 □□□□□□□□□□□□□ 10 □□□□□□□□□□□□□□□□□□□ 300xg □□ 3 □□□□□□□□□□□□□□□□□□□□ □□□□□□□□□□□□□□□□□□□□

Fluid renewal	□□ 2 □

Thawing and culturing

Confirm that the vial remains deeply frozen upon delivery, as cells are shipped on dry ice to maintain optimal temperatures during transit.
Upon receipt, either store the cryovial immediately at temperatures below -150°C to ensure the preservation of cellular integrity, or proceed to step 3 if immediate culturing is required.
For immediate culturing, swiftly thaw the vial by immersing it in a 37°C water bath with clean water and an antimicrobial agent, agitating gently for 40-60 seconds until a small ice clump remains.
Perform all subsequent steps under sterile conditions in a flow hood, disinfecting the cryovial with 70% ethanol before opening.
Carefully open the disinfected vial and transfer the cell suspension into a 15 ml centrifuge tube containing 8 ml of room-temperature culture medium, mixing gently.
Centrifuge the mixture at 300 x g for 3 minutes to separate the cells and carefully discard the supernatant containing residual freezing medium.
Gently resuspend the cell pellet in 10 ml of fresh culture medium. For adherent cells, divide the suspension between two T25 culture flasks; for suspension cultures, transfer all the medium into one T25 flask to promote effective cell interaction and growth.
Adhere to established subculture protocols for continued growth and maintenance of the cell line, ensuring reliable experimental outcomes.

QUALITY CONTROL AND CRYOPRESERVATION

Sterility

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Freeze medium	□□□□□□□□□□□□□□□ FBS□+10% DMSO □ CM-1□Cytion □□□□□□ 800100□□□□□□□□□ □□□□□□□□□□□□□□□□□CM-1□Cytion □□□□□□ 800100□□□□□□□□□□□□□□□□□□□□□□ □□□□□□□□□□□□□□□□□

Storage conditions

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Shipping conditions

□□□ -78 °C □□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□

DONOR

Donor age	55 □
Ethnicity	□□

LEGAL AND SAFETY

Safety precautions

计划将低温样品储存在液氮中以便将来解冻时，必须遵守严格的安全措施。在将冷冻样本移入或移出液氮罐时，必须穿戴适当的防护手套和防护服，并使用面罩或安全护目镜。这样做是为了降低在移出时因冷冻样品爆炸而造成伤害的风险，因为爆炸可能导致锋利的碎片飞溅。

Warranty

在Cytion，我们保证产品的质量和活力。
我们保证，从我们的工厂发货后 60 天内，我们的□胞在开始培养时都是存活的。
我们保证所有材料均符合分析证书和/或产品说明书中描述的规格。
有关详□信息，请参阅我们的 <a href="" /Who-we-are/Warranty/"" hreflang=""x-default"">保修声明。

Material Transfer Agreement required	Yes

PRODUCT DETAILS

Composition table