

INS-1 | 300471

General information

Description	INS-1 is a human insulinoma cell line, derived from a patient with insulinoma. It is a highly proliferative, insulin-secreting cell line that is used for the study of insulinoma pathogenesis and for the development of new therapies. INS-1 cells are characterized by their ability to secrete insulin in response to glucose stimulation. They are also capable of forming islet-like clusters, which is a characteristic feature of pancreatic islet cells. INS-1 cells are typically grown in the presence of insulin, transferrin, and selenium (ITS) supplements. They are also capable of expressing various markers of pancreatic islet cells, including insulin, glucagon, and somatostatin. INS-1 cells are a valuable tool for studying the molecular and cellular mechanisms underlying insulinoma and for developing new therapies for this disease.
Organism	Human
Tissue	Islet, Pancreas
Disease	Insulinoma
Synonyms	INS1

Characteristics

Breed/Subspecies	NEDH
Age	666 days
Gender	Male
Cell type	Islet
Growth properties	Adherent

Documentation

Citation	INS-1 (Cytion 300471)
Biosafety level	1
NCBI_TaxID	10116
CellosaurusAccession	CVCL_0352

Additional information

Products ,

Culture Medium	RPMI 1640, w: 2.0 mM β -mercaptoethanol, w: 2.0 g/L NaHCO ₃ (Sigma), 10% Cytion 820700a
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Dissociation Reagent 

Freeze medium α MEM, 10% FBS + 10% DMSO

[illegible]

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Freezing Procedure

-78°C

Shipping Conditions

[illegible]

Storage Conditions

[illegible]

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Sterility

[illegible][illegible]