
Hybridokine

Product Description

Name:	Growth factor for the cell culture of hybridoma, improving cloning efficiency factor.
Catalog number:	UP826430, 12.5ml
Form:	Hybridokine is offered sterile and lyophilised
Storage:	+4°C Stable two years when stored at 0–5°C, lyophilised Stable 6 months at +4°C after reconstitution with water

Scientific and Technical Information

Hybridoma and their growth factors

- **Myeloma and hybridoma** are tumoral cell lines that have the ability to proliferate indefinitely. However most require growth factors to maintain optimal growth. One important application is the production of monoclonal antibodies that are recovered in the cell culture medium.
- One key step in the hybridoma obtention is the **cloning**. That consists to obtain a culture from a unique cell. This critical step should be done rapidly after parent cells where fused. It is recommended to repeat cloning from time to time to avoid the development of non interesting cells that may appear and overcome the growth of the right cell line (producing classically the desired specific antibody). To promote the optimal growth of hybridoma, cell culture media should be supplemented with cytokines and Foetal Calf Serum (FCS). However protein concentration should be reduced when interfering with further treatment, like antibody purification.
- Many works tried to improve cell culture media and supplements. **Macrophages feeders** are frequently used in hybridoma cloning, but their preparation is a hassle and gives tedious or variable results. Hybridokine' is a break through to that purpose.

Hybridokine

- The 'Hybridokine' (**Hybridoma cloning enhancing factor**) is a growth factor that is obtained in culture media for continuous culture of a human tumoral cell line (ES1, a strain of Ewing sarcoma). It contains a potent growth factor that allows and accelerates the growth of cells, even a unique cells. It is a mixture whose main activity relay on a undefined cytokine, and Interleukine 6. Although its nature is not well defined, the biological activity is perfectly controlled.

Note : The Hybridokine is not used in place of serum, thus the cloning medium should be supplemented with FCS.

- Hybridokine is an efficient and economical tool for the cloning of many strains: mouse / mouse (X63, SP2/0, NS1); rat / rat (Y3); mouse / human ; mouse / rat; Hybridoma obtained from other species were not assayed at this time. It helps too cells to grow again after a cryo-storage, and for in vitro immunisations.
- Hybridokine is also recommended for in vitro immunization procedures

Directions for use

Reconstitute with 12,5 ml of sterile distilled water
Recommended concentration for use: 2.5% (V/V)

Other Information

For any information, please contact Uptima, or your local distributor.
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NT-82643

Literature

- I. DLeij, L., Schwander, E. and T.H. The. Cryopreservation in hybridoma production. In : methods of hybridoma formation. Eds. Bartal, A., and Hirshaut, Y., The Humana Press, Clifton, New Jersey, **419-427**, (1987).
- II. Boldicke, T., Kindt, S., Mayvald, F., Fitzlaff, G., Bocher, M., Frank, R., and J. Collins. Production of specific monoclonal antibodies against the active sites of human pancreatic secretory trypsin inhibitor by in vitro immunization with synthetic peptides. Eur. J. Biochem. 175, **259-264** (1988).

rev.: B06V