



Hmgb1^{-/-} embryonic fibroblasts immortalized with the 3T3 method, low content of HMGB2

Product Number: HM-223

Batch number: (depends on batch)

Product Description:

This product includes two different MEFs: *Hmgb1^{+/+}* (wild type) and *Hmgb1^{-/-}* mouse embryonic fibroblasts immortalized with 3T3 method.

This immortalized clone of *Hmgb1^{-/-}* contains a reduced amount of HMGB2.

This clone was obtained from a cross of *Hmgb1* heterozygotes on a pure BALB/c genetic background (>10 backcrosses), and grown according to the 3T3 protocol, which prescribes splitting 1:3 the growing cells every 3 days for 3 months.

Reagent format:

Hmgb1^{+/+} and *Hmgb1^{-/-}* MEFs are shipped in dry ice FBS + 10% DMSO.

Handling procedure for frozen cells

To insure the highest level of viability, thaw the vial and initiate the culture as soon as possible upon receipt.

If upon arrival, continued storage of the frozen culture is necessary, it should be stored in liquid nitrogen vapour phase and not at -80°C. Storage at -80°C will result in loss of viability. The viability of HM-223 is warranted for 35 days from the date of shipment.

Long term storage:

The cells can be stored in liquid nitrogen vapor phase in FBS + 10% DMSO.

How to use product:

The MEFs can be maintained indefinitely as monolayer cultures in complete DMEM high glucose (10% FBS, 1 mM sodium pyruvate, 0.5 mM β-Mercapthoethanol, 100 U/ml penicillin and 100 µg/ml streptomycin) at 37°C in air atmosphere 5% CO₂.

We suggest to split the cells, by trypsinization, when they reach 80% of confluence.

As wild type controls for these MEFs, we suggest to use *Hmgb1^{+/+}* that will be provided by default with this order.

This product is for research use only.

References:

Urbonaviciute *et al* (2008) Induction of inflammatory and immune responses by HMGB1-nucleosome complexes – implications for the pathogenesis of SLE. *J Exp Med* 205: 3007-18