



P90051Mu01
Insulin Like Growth Factor 2 (IGF2)
Organism: Mus musculus (Mouse)
Instruction manual

FOR IN VITRO USE AND RESEARCH USE ONLY
NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES

1th Edition (Revised in February, 2012)

[DESCRIPTION]

Protein Names: Insulin Like Growth Factor 2

Gene Names: IGF2

Size: 50 μ g

Source: Recombinant

Expression Host: *E.coli*

Function: The insulin-like growth factors possess growth-promoting activity. In vitro, they are potent mitogens for cultured cells. IGF-II is influenced by placental lactogen and may play a role in fetal development.

Preptin undergoes glucose-mediated co-secretion with insulin, and acts as physiological amplifier of glucose-mediated insulin secretion. Exhibits osteogenic properties by increasing osteoblast mitogenic activity through phosphoactivation of MAPK1 and MAPK3.

Subcellular Location: Secreted

[PROPERTIES]

Residues: Ala25~Glu91 (Accession # p09535), with a N-terminal His-tag.

Grade & Purity: >97%, 11.2 kDa as determined by SDS-PAGE reducing conditions.

Form & Buffer: Supplied as lyophilized form in PBS, pH 7.4.



Endotoxin Level: <1.0 EU per 1µg(determined by the LAL method).

Applications: SDS-PAGE; WB; ELISA;IP.

(May be suitable for use in other assays to be determined by the end user.)

Predicted Molecular Mass: 11.2 kDa

[PREPARATION]

Reconstitute in PBS.

[STORAGE AND STABILITY]

Storage: Store at 4°C for short term storage (1-2 weeks). Aliquot and store at -20°C or -80°C for long term storage. Avoid repeated freeze/thaw cycles.

Valid period: 12 months stored at -80°C.

[BACKGROUND]

The target protein is fused with a His-tag and its sequence is listed below.

MGSSHHHHHHSSGLVPRGSHMASMTGGQQMGRGSEF-AYGPGE TLGGELVDT LQFVCSDRGF
YFSRPSSRAN RRSRGIVEEC CFRSCDLALL ETYCATPAKS E

[REFERENCES]

1. Rotwein P., Hall L.J. (1990) DNA Cell Biol. 9:725-735.
2. Sasaki H., et.al. (1996) DNA Res. 3:331-335.
3. Holthuisen P.E., et.al. (1993) Regul. Pept. 48:77-89.

