Eukaryotic Matrix Metalloproteinase 13 (MMP13) Organism Species: Rattus norvegicus (Rat)

Instruction manual

EPA099Ra61 100ug

FOR IN VITRO USE AND RESEARCH USE ONLY NOT FOR USE IN CLINICAL DIAGNOSTIC PROCEDURES

Coud-Clone Corp.

11th Edition (Revised in May, 2016)

### [PROPERTIES]

Source: Eukaryotic expression. Host: 293F cell Residues: Leu14~Cys466 Tags: N-terminal His Tag Homology: Human 87%, mouse 97% Tissue Specificity: Lung. Subcellular Location: Secreted. Extracellular matrix. **Purity:** >98% **Endotoxin Level:** <1.0EU per 1µg (determined by the LAL method). **Traits:** Freeze-dried powder Buffer Formulation: 20mM Tris, 150mM NaCl, pH8.0, containing 1mM EDTA, 1mM DTT, 5%Trehalose and Proclin300. Original Concentration: 200ug/mL Predicted isoelectric point: 5.1 Predicted Molecular Mass: 53.4kDa Accurate Molecular Mass: 60kDa as determined by SDS-PAGE reducing conditions. **Applications:** SDS-PAGE; WB; ELISA; IP; CoIP; EMSA; Reporter Assays; Purification; Amine Reactive Labeling.

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

# Coud-Clone Corp.

#### Phenomenon explanation:

The possible reasons that the actual band size differs from the predicted are as follows:

- 1. Splice variants: Alternative splicing may create different sized proteins from the same gene.
- 2. Relative charge: The composition of amino acids may affects the charge of the protein.
- 3. Post-translational modification: Phosphorylation, glycosylation, methylation etc.
- 4. Post-translation cleavage: Many proteins are synthesized as pro-proteins, and then cleaved to give the active form.
- 5. Polymerization of the target protein: Dimerization, multimerization etc.

## [ <u>USAGE</u> ]

Reconstitute in 20mM Tris, 150mM NaCl (pH8.0) to a concentration of 0.1-1.0 mg/mL. Do not vortex

#### [ STORAGE AND STABILITY ]

Storage: Avoid repeated freeze/thaw cycles.

Store at 2-8°C for one month.

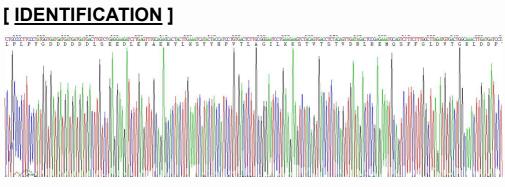
Aliquot and store at -80°C for 12 months.

**Stability Test:** The thermal stability is described by the loss rate. The loss rate was determined by accelerated thermal degradation test, that is, incubate the protein at 37°C for 48h, and no obvious degradation and precipitation were observed. The loss rate is less than 5% within the expiration date under appropriate storage condition.

### [<u>SEQUENCE</u>]

```
LPLPYGD DDDDDLSEED LEFAEHYLKS YYHPVTLAGI
LKKSTVTSTV DRLREMQSFF GLDVTGKLDD PTLDIMRKPR CGVPDVGVYN
VFPRTLKWSQ TNLTYRIVNY TPDISHSEVE KAFRKAFKVW SDVTPLNFTR
IHDGTADIMI SFGTKEHGDF YPFDGPSGLL AHAFPPGPNL GGDAHFDDDE
TWTSSSKGYN LFIVAAHELG HSLGLDHSKD PGALMFPIYT YTGKSHFMLP
DDDVQGIQSL YGPGDEDPNP KHPKTPEKCD PALSLDAITS LRGETMIFKD
RFFWRLHPQQ VEPELFLTKS FWPELPNHVD AAYEHPSRDL MFIFRGRKFW
ALNGYDIMEG YPRKISDLGF PKEVKRLSAA VHFEDTGKTL FFSGNHVWSY
DDANQTMDKD YPRLIEEFP GIGDKVDAVY EKNGYIYFFN GPIQFEYSIW
SNRIVRVMPT NSLLWC
```

1304 Langham Creek Dr, Suite 226, Houston, TX 77084, USA | 001-888-960-7402 | www.cloud-cloue.us | mail@cloud-clone.as Export Processing Zone, Wuhan, Hubei 430056, PRC | 0086-000-880-0687 | www.cloud-clone.com | mail@cloud-clone.com





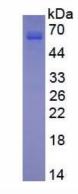


Figure 2. SDS-PAGE