

EPA013Ra61 100µg Eukaryotic Bone Morphogenetic Protein 2 (BMP2) Organism Species: *Rattus norvegicus (Rat) Instruction manual* 

FOR RESEARCH USE ONLY

NOT FOR USE IN CLINICAL DIAGNOSTIC PROCEDURES

13th Edition (Revised in Aug, 2023)

# Coud-Clone Corp.

## [PROPERTIES]

Source: Eukaryotic expression Host: 293F cell Residues: Ser49~IIe243 Tags: N-terminal His Tag Subcellular Location: Secreted Purity: > 90% Traits: Freeze-dried powder Buffer formulation: PBS, pH7.4, containing 5% Trehalose . Original Concentration: 200µg/mL Applications: Positive Control; Immunogen; SDS-PAGE; WB. (May be suitable for use in other assays to be determined by the end user.) Predicted isoelectric point: 8.0 Predicted Molecular Mass: 23.9kDa

Accurate Molecular Mass: 40kDa as determined by SDS-PAGE reducing conditions.

#### 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.

## [USAGE]

Reconstitute in 10mM PBS (pH7.4) 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>]

SEFELRLLSMFGLKQRPTPSKDVVVPPYMLDLYRRHSGQPGALAPDHRLERAASRANTVLSFHHEEAIE ELSEMSGKTSRRFFFNLSSVPTDEFLTSAELQIFREQMQEALGNSSFQHRINIYEIIKPATASSKFPVT RLLDTRLVTQNTSQWESFDVTPAVMRWTAQGHTNHGFVVEVAHLEEKPGVSKRHVRI

#### [IDENTIFICATION]

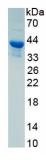


Figure. SDS-PAGE

#### [IMPORTANT NOTE]

The kit is designed for research use only, we will not be responsible for any issue if the kit was used in clinical diagnostic or any other procedures.