[ PROPERTIES ]

Source: Eukaryotic expression.
Host: 293F cell
Residues: Gln22~Leu171
Tags: N-terminal His Tag
Homology: Human 49%, mouse 61%
Tissue Specificity: Liver.
Subcellular Location: Membrane.
Purity: >90%
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: 6.2
Predicted Molecular Mass: 18.5kDa
Accurate Molecular Mass: 23kDa 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.)
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 affect 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 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.

[ SEQUENCE ]
QGTDSIFEG LELKRSVRET DNNCSEGLYQ
VGPFCCQPCQ PGERKVDKCT TSGGAPTCHP CTEGEYTDRC HYSDKCRRC
AFCDEGHGLENVTNCTRTON TKCRckenFY CNASLCDHCY HCTSCGLEDI
LEPCTRTSNT KCKKQSSNYKL
Figure 1. Gene Sequencing (extract)

Figure 2. SDS-PAGE