

# Human KCT2 / C5orf15 Protein (His Tag)

Catalog Number: 13794-H08H



**Sino Biological Inc.**

Biological Solution Specialist

## General Information

### Gene Name Synonym:

HTGN29; KCT2; C85061; Kct2

### Protein Construction:

A DNA sequence encoding the human C5orf15 (NP\_064584.1) (Met1-Asp196) was expressed with a C-terminal polyhistidine tag.

**Source:** Human

**Expression Host:** Human Cells

## QC Testing

**Purity:** > 95 % as determined by SDS-PAGE

### Endotoxin:

< 1.0 EU per µg of the protein as determined by the LAL method

### Stability:

Samples are stable for up to twelve months from date of receipt at -70 °C

**Predicted N terminal:** Arg 50

### Molecular Mass:

The recombinant human C5orf15 comprises 158 amino acids and has a predicted molecular mass of 17.5 kDa. The apparent molecular mass of the protein is approximately 33-47 kDa in SDS-PAGE under reducing conditions.

### Formulation:

Lyophilized from sterile PBS, pH 7.4.

Normally 5 % - 8 % trehalose, mannitol and 0.01% Tween80 are added as protectants before lyophilization. Specific concentrations are included in the hardcopy of COA. Please contact us for any concerns or special requirements.

## Usage Guide

### Storage:

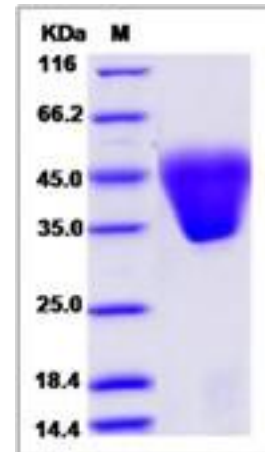
Store it under sterile conditions at -20°C to -80°C upon receiving. Recommend to aliquot the protein into smaller quantities for optimal storage.

**Avoid repeated freeze-thaw cycles.**

### Reconstitution:

Detailed reconstitution instructions are sent along with the products.

## SDS-PAGE:



## Protein Description

KCT2, also known as C5orf15, KCT2 gene maps to human chromosome 5q31.1 and is conserved in human, chimpanzee, cow, rat, and chicken. KCT2 is a 265 amino acid single-pass type I membrane protein that is widely expressed. Chromosome 5 is associated with Cockayne syndrome through the ERCC8 gene and familial adenomatous polyposis through the adenomatous polyposis coli (APC) tumor suppressor gene. Chromosome 5 contains 181 million base pairs and comprises nearly 6% of the human genome.

## References

1. Bonkobara M., *et al.*, (2003), Identification of novel genes for secreted and membrane-anchored proteins in human keratinocytes. *Br. J. Dermatol.* 148:654-664.
2. Yu W, *et al.*, (1997), Large-scale concatenation cDNA sequencing. *Genome Res.* 7(4):353-8.
3. Ota T., *et al.*, (2004), Complete sequencing and characterization of 21,243 full-length human cDNAs. *Nat. Genet.* 36:40-45.

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