

## Recombinant Human SUGT1 protein, His-tagged

**Cat. No.** SUGT1-3437H    **Lot. No.** (See product label)

### SPECIFICATION

|                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
|-------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Product Overview</b> | Recombinant Human SUGT1(115-365aa) fused with His tag at N-terminal was expressed in E. coli.                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| <b>Species</b>          | Human                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| <b>Source</b>           | E.coli                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| <b>ProteinLength</b>    | 115-365 a.a.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| <b>Description</b>      | SuGT1, also known as suppressor of G2 allele of SKP1, is a homolog of the yeast protein SGT1, a regulator of the cell cycle that is essential for G1/S and G2/M transitions. It contains a CS domain, a SGS domain, a p23 domain and three tetratricopeptide repeats (TPR). This protein associates with Skp1 p19 and Cul-1, subunits of the SCF ubiquitin ligase complex, and is thought to play a role in protein degradation. In addition, it is required for the kinetochores assembly, and has function as a co-chaperone for HSP90. |
| <b>Form</b>             | Liquid. 20mM Tris-HCl buffer (pH8.0) containing 20% glycerol 1mM DTT, 0.1M NaCl                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| <b>Molecular Mass</b>   | 30.7 kDa (272aa), confirmed by MALDI-TOF                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| <b>AA Sequence</b>      | MGSSHHHHHH SSGLVPRGSH MVITLMIKNVQ KNDVNVEFSE KELSALVKLP<br>SGEDYNLKLE LLHPIPEQS TFKVLSTKIE IKLKKPEAVR WEKLEGQGDV<br>PTPKQFVADV HRVGQAGLQ LLTSSDPPAL DSQSAGITGA DANFSVWIKR<br>CQEAQNGSES EVWTHQSKIK YDWYQTESQVKNLYPSSSPY TRNWDKLVGE                                                                                                                                                                                                                                                                                                        |

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IKEEEKNEKL EGDAALNRLF QQIYSDGSDE VKRAMNKSFM ESGGTVLSTN  
WSDVGKRKVE INPPDDMEWKKY

**Purity** >90% by SDS - PAGE

**Storage** Can be stored at +4 centigrade short term (1-2 weeks). For long term storage, aliquot and store at -20 centigrade or -70 centigrade. Avoid repeated freezing and thawing cycles.

**Concentration** 0.5 mg/ml (determined by Bradford assay)

## GENE INFORMATION

**Gene Name** SUGT1 SGT1, suppressor of G2 allele of SKP1 (*S. cerevisiae*) [ *Homo sapiens* ]

**Official Symbol** SUGT1

**Synonyms** SUGT1; SGT1, suppressor of G2 allele of SKP1 (*S. cerevisiae*); suppressor of G2 allele of SKP1 homolog; SGT1; SGT1B protein; putative 40-6-3 protein; suppressor of G2 allele of SKP1, *S. cerevisiae*, homolog of;

**Gene ID** 10910

**mRNA Refseq** NM\_001130912

**Protein Refseq** NP\_001124384

**MIM** 604098

**UniProt ID** Q9Y2Z0

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|----------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Chromosome Location</b> | 13q12.2-q13.3                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| <b>Pathway</b>             | Immune System, organism-specific biosystem; Inflammasomes, organism-specific biosystem; Innate Immune System, organism-specific biosystem; NOD-like receptor signaling pathway, organism-specific biosystem; NOD-like receptor signaling pathway, conserved biosystem; Nucleotide-binding domain, leucine rich repeat containing receptor (NLR) signaling pathways, organism-specific biosystem; The NLRP3 inflammasome, organism-specific biosystem; |
| <b>Function</b>            | binding;                                                                                                                                                                                                                                                                                                                                                                                                                                              |

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