

## Product datasheet for PH300384

### SGT1 (ECD) (NM\_007265) Human Mass Spec Standard

#### Product data:

|                                       |   |
|---------------------------------------|---|
| Product Type:                         | Mass Spec Standards   |
| Description:                          | ECD MS Standard C13 and N15-labeled recombinant protein (NP_009196)   |
| Species:                              | Human   |
| Expression Host:                      | HEK293  |
| Expression cDNA Clone or AA Sequence: | RC200384  |
| Predicted MW:                         | 72.8 kDa  |
| Protein Sequence:                     | >RC200384 protein sequence<br>Red=Cloning site Green=Tags(s)  |
|                                       | MEETMKLATMEDTVEYCLFLIPDES RSDSKHKEILQKYIERIITRFAPMLVPYIWQNQPFNLKYKPGKGG<br>VPAHMFVTKFGDNI EDEWFIVYVIKQITKEFPELVARI EDNDGEFLLIEAADFLPKWLDPENSTNRVFF<br>CHGELCIIPAPRKSGAESWLPTTPPTIPQALNIITAHSEKILASESIRAAVNRRIRGYPEKIQASLHRAH<br>CFLPAGIVAVLQQRPRLVAAAVQAFYLRDPIDLRACRVFKTFLPETRIMTSVTFKCLYAQLVQQRFPD<br>RRSGYRLPPPSDPQYRAHELGMKLAHGFEILCSKCSPHFSDCKKSLVTASPLWASFLES LKKNDFYKGLI<br>EGSAQYRERLEMAENYFQLSVDWPESLAMPGEEIL TLLQTIPFDIEDLKKEAANLPPEDDDQWLDLSP<br>DQLDQLLQEA VGGKESESVSKEEKEQNYDLTEVSESMKAFISKVSTHKGAE LPREPSEAPITFDADSF LN<br>YFDKILGPRPNE SDDLDDEDFECLDSDDDLDFETHEPGEEASLKGTL DNLSYMAQMDQEL AHTCISK<br>SFTTRNQVEPVSTT DNNSDEEDSGTGESYMAPVDVDLNLVSNILESYSSQAGLAGPASNLLQSMGVQLP<br>DNTDHRPTSKPTKN |
|                                       | TRTRPLEQKLI SEEDLAANDILDYKDDDDKV  |
| Tag:                                  | C-Myc/DDK   |
| Purity:                               | > 80% as determined by SDS-PAGE and Coomassie blue staining   |
| Concentration:                        | >0.05 µg/µL as determined by microplate BCA method  |
| Labeling Method:                      | Labeled with [U- 13C6, 15N4]-L-Arginine and [U- 13C6, 15N2]-L-Lysine  |
| Buffer:                               | 25 mM Tris-HCl, 100 mM glycine, pH 7.3  |
| Storage:                              | Store at -80°C. Avoid repeated freeze-thaw cycles.  |
| Stability:                            | Stable for 3 months from receipt of products under proper storage and handling conditions.  |
| RefSeq:                               | <a href="#">NP_009196</a>   |
| RefSeq Size:                          | 2280  |



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RefSeq ORF: 1932

Synonyms: GCR2; HSGT1; SGT1

Locus ID: 11319

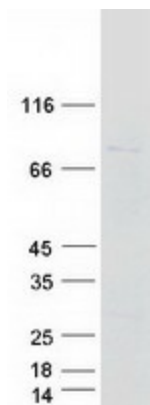
UniProt ID: [O95905](#)

Cytogenetics: 10q22.2

**Summary:** Regulator of p53/TP53 stability and function. Inhibits MDM2-mediated degradation of p53/TP53 possibly by cooperating in part with TXNIP (PubMed:16849563, PubMed:23880345). May be involved transcriptional regulation. In vitro has intrinsic transactivation activity enhanced by EP300. May be a transcriptional activator required for the expression of glycolytic genes (PubMed:19919181, PubMed:9928932). Involved in regulation of cell cycle progression. Proposed to disrupt Rb-E2F binding leading to transcriptional activation of E2F proteins (PubMed:19640839). The cell cycle -regulating function may depend on its RUVBL1-mediated association with the R2TP complex (PubMed:26711270). May play a role in regulation of pre-mRNA splicing (PubMed:24722212).[UniProtKB/Swiss-Prot Function]

**Protein Families:** Druggable Genome, Transcription Factors

### Product images:



Coomassie blue staining of purified ECD protein (Cat# [TP300384]). The protein was produced from HEK293T cells transfected with ECD cDNA clone (Cat# [RC200384]) using MegaTran 2.0 (Cat# [TT210002]).