

# Active Recombinant Human G Protein-Coupled Receptor Associated Sorting Protein 1, His-tagged

**Cat. No.** GPRASP1-5633H    **Lot. No.** (See product label)

## SPECIFICATION

|                            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
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| <b>Product Overview</b>    | Recombinant Human GPRASP1 protein was expressed in Murine myeloma cellline. Leu35-His576, with a C-terminal 6-His tag.                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| <b>Species</b>             | Human                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| <b>Source</b>              | Mammalian Cells                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| <b>Protein Length</b>      | 35-576 a.a.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| <b>Description</b>         | GPRASP1 was isolated in a screen to identify proteins in mice that copurify with myostatin (GDF-8), a potent negative regulator of skeletal muscle mass. The GPRASP1 cDNA encodes a 571 amino acid protein that contains a 29 amino acid signal sequence and is comprised of many conserved domains: WAP, follistatin/Kazal, immunoglobulin, two tandem Kunitz, and netrin. Two related human proteins which contain the same domain structure are called WFIKKN (based on the presence and order of these conserved domains) and WFIKKNRP (WFIKKN-related protein). |
| <b>Form</b>                | Lyophilized from a 0.2 µm filtered solution in PBS with BSA as a carrier protein.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| <b>N-terminal Sequence</b> | Leu35                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| <b>Molecular Weight</b>    | 60.7 kDa                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| <b>Activity</b>            | Measured by its ability to inhibit rmGDF-8 activity in K562 human chronic                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |

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myelogenous leukemia cells. The ED50 for this effect is typically 0.03-0.15 µg/mL, in the presence of 40 ng/mL of rmGDF-8. Measured by its ability to inhibit trypsin cleavage of a fluorogenic peptide substrate, Mca-RPKPVE-Nval-WRK (Dnp)-NH<sub>2</sub>. The IC<sub>50</sub> value is approximately 1.5 nM, as measured in a reaction mixture containing 1.0 nM trypsin, 10 mM ES002, 50 mM Tris, 10 mM CaCl<sub>2</sub>, 0.15 M NaCl, pH 7.5.

**Endotoxin Level** <1.0 EU per 1 µg of the protein by the LAL method.

**SDS-PAGE** 75-80 kDa, reducing conditions.

**Purity** >95%, by SDS-PAGE under reducing conditions and visualized by silver stain.

**Reconstitution** 10 µg/mL in sterile PBS containing at least 0.1% human or bovine serum albumin

**Storage** Use a manual defrost freezer and avoid repeated freeze-thaw cycles. 12 months from date of receipt, -20 to -70°C as supplied. 1 month, 2 to 8°C under sterile conditions after reconstitution. 3 months, -20 to -70°C under sterile conditions after reconstitution.

## GENE INFORMATION

**Gene Name** GPRASP1 G protein-coupled receptor associated sorting protein 1 [ Homo sapiens ]

**Official Symbol** GPRASP1

**Synonyms** GPRASP1; G protein-coupled receptor associated sorting protein 1; GASP; GASP1; GASP-1; G-protein coupled receptor-associated sorting protein 1; KIAA0443

**Gene ID** 9737

**mRNA Refseq** NM\_001184727

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|----------------------------|-----------------|
| <b>Protein Refseq</b>      | NP_001171656    |
| <b>MIM</b>                 | 300417          |
| <b>UniProt ID</b>          | Q5JY77          |
| <b>Chromosome Location</b> | Xq22.1          |
| <b>Function</b>            | protein binding |

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