

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

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

SPECIFICATION

Product Overview	Recombinant Human GPRASP1 protein was expressed in Murine myeloma cellline. Leu35-His576, with a C-terminal 6-His tag.
Species	Human
Source	Mammalian Cells
Protein Length	35-576 a.a.
Description	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).
Form	Lyophilized from a 0.2 µm filtered solution in PBS with BSA as a carrier protein.
N-terminal Sequence	Leu35
Molecular Weight	60.7 kDa
Activity	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)-NH₂. The IC₅₀ 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 CaCl₂, 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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Protein Refseq	NP_001171656
MIM	300417
UniProt ID	Q5JY77
Chromosome Location	Xq22.1
Function	protein binding

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