

Active Recombinant Mouse Growth Arrest Specific 1, His-tagged

Cat. No. Gas1-605M **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Mouse Gas1 protein was expressed in Murine myeloma cell line. Leu39-Ser315 & Arg43-Ser315, both with a C-terminal 6-His tag.
Species	Mouse
Source	Mammalian Cells
Protein Length	39-315; 43-315 a.a.
Description	Gas1 is one of six structurally unrelated proteins that were identified by their increased expression in growth-arrested cells relative to actively proliferating cells. Following mitogenic stimulation, Gas1 expression is transcriptionally suppressed by c-Myc as cells transit from G ₀ to G ₁ phases of the cell cycle. Overexpression of Gas1 prevents S phase entry and DNA synthesis. Gas-mediated blockade of the cell cycle is p53-dependent but does not require the transactivating domain of p53. The mouse Gas1 cDNA encodes a 343 amino acid (aa) precursor that includes a 38 aa signal sequence, a 277 aa mature protein, and a 28 aa C-terminal propeptide. Gas1 contains Ala-rich and Asp-rich regions as well as an RGD sequence.
Form	Lyophilized from a 0.2 µm filtered solution in PBS.
N-terminal Sequence	Leu39 & Arg43
Molecular Weight	29.8 kDa

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Activity	Measured by its binding ability in a functional ELISA. Immobilized rhGas1 at 1 µg/mL (100 µL/well) can bind rmArtemin at a linear range of 0.1-10 ng/mL.
Endotoxin Level	<1.0EU per 1µg of the protein by the LAL method.
SDS-PAGE	40 kDa, reducing conditions.
Purity	>95%, by SDS-PAGE under reducing conditions and visualized by silver stain.
Reconstitution	Reconstitute at 100µg/mL in PBS.
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	Gas1 growth arrest specific 1 [Mus musculus]
Official Symbol	Gas1
Synonyms	Gas1; growth arrest specific 1; Gas-1; AW554192; growth arrest-specific protein 1
Gene ID	14451
mRNA Refseq	NM_008086
Protein Refseq	NP_032112
UniProt ID	Q01721

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Chromosome Location	13
Pathway	Hedgehog SignalingPathway
Function	protein binding

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