Active Recombinant Human Growth Arrest-Specific 1, His-tagged

Cat. No. GAS1-609H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	RecombinantHuman GAS1 protein was expressed in Murinemyeloma cell line. Leu40-Ser318, with a C-terminal 6-Histag.
Species	Human
Source	Mammalian Cells
ProteinLength	40-318 a.a.
Description	GAS1 is one of six structurally unrelated proteins thatwere identified by their increased expression in growth-arrested cells relativeto actively proliferating cells. Following mitogenic stimulation, GAS1 expression is transcriptionally suppressed by c-Myc ascells transit from G 0 to G1 phases of the cell cycle. Overexpression of GAS1 prevents S phase entry and DNA synthesis. GAS1-mediated blockade of the cell cycle is p53-dependent butdoes not require the transactivating domain of p53. The human GAS1 cDNA encodes a 345 amino acid (aa) precursor thatincludes a 39 aa signal sequence, a 279 aa mature protein, and a 27 aa C-terminalpropeptide. GAS1 contains Ala-rich and Asp-rich regions as well as anRGD sequence.
Form	Supplied as a 0.2 umfiltered solution in Tris and NaCl.
N-terminalSequence	Leu40
MolecularWeight	30.1 kDa

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Activity	Measuredby its binding ability in a functional ELISA. Immobilized rhGas1 at 1 μg/mL(10μL/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	Reconstituteat 100μg/mL in sterile PBS.
Storage	Use amanual defrost freezer and avoid repeated freezethaw cycles. 6 monthsfrom date of receipt, -20 to -70°C as supplied. 3 months,-20to-70°C under sterile conditions after opening.

GENE INFORMATION

Gene Name	GAS1 growth arrest-specific 1 [Homosapiens]
Official Symbol	GAS1
Synonyms	GAS1; growth arrest-specific 1;growth arrest-specific protein 1; Growth arrest specific gene 1;Growth-arrest-specific protein 1 precursor; GAS-1; OTTHUMP00000021599; Growtharrest-specific gene-1
Gene ID	2619
mRNA Refseq	NM_002048
Protein Refseq	NP_002039

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MIM	139185
UniProt ID	P54826
Chromosome Location	9q21.3-q22
Pathway	FOXM1 transcriptionfactor network; Hedgehog Signaling Pathway; Signaling events mediated by theHedgehog family
Function	protein binding

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