

## Recombinant Human GATAD2A, His-tagged

Cat. No. GATAD2A-13169H Lot. No. (See product label)

### SPECIFICATION

**Product Overview** Recombinant Human GATAD2A protein, fused to His-tag, was expressed in E.coli and purified by Ni-sepharose.

**Species** Human

**Source** E.coli

**ProteinLength** C-term-266a.a.

#### Description

Cytosolic and membrane-bound forms of glutathione S-transferase are encoded by two distinct supergene families. At present, eight distinct classes of the soluble cytoplasmic mammalian glutathione S-transferases have been identified: alpha, kappa, mu, omega, pi, sigma, theta and zeta. This gene encodes a glutathione S-transferase that belongs to the mu class. The mu class of enzymes functions in the detoxification of electrophilic compounds, including carcinogens, therapeutic drugs, environmental toxins and products of oxidative stress, by conjugation with glutathione. The genes encoding the mu class of enzymes are organized in a gene cluster on chromosome 1p13.3 and are known to be highly polymorphic. These genetic variations can change an individuals susceptibility to carcinogens and toxins as well as affect the toxicity and efficacy of certain drugs. Diversification of these genes has occurred in regions encoding substrate-binding domains, as well as in tissue expression patterns, to accommodate an increasing number of foreign compounds. Multiple transcript variants, each encoding a distinct protein isoform, have been identified.

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<b>Storage</b>	The protein is stored in PBS buffer at -20°C. Avoid repeated freezing and thawing cycles.
<b>Storage Buffer</b>	1M PBS (58mM Na <sub>2</sub> HPO <sub>4</sub> , 17mM NaH <sub>2</sub> PO <sub>4</sub> , 68mM NaCl, pH8. ) added with 300mM Imidazole and 0.7% Sarcosyl, 15% glycerol.
<b>GENE INFORMATION</b>	
<b>Gene Name</b>	GATAD2A GATA zinc finger domain containing 2A [ Homo sapiens ]
<b>Official Symbol</b>	GATAD2A
<b>Synonyms</b>	GATAD2A; GATA zinc finger domain containing 2A; transcriptional repressor p66-alpha; p66 alpha; p66alpha; hp66alpha; GATA zinc finger domain-containing protein 2A; FLJ20085; FLJ21017;
<b>Gene ID</b>	54815
<b>mRNA Refseq</b>	NM_017660
<b>Protein Refseq</b>	NP_060130
<b>UniProt ID</b>	Q86YP4
<b>Chromosome Location</b>	19p13.11
<b>Pathway</b>	Signaling events mediated by HDAC Class I, organism-specific biosystem;
<b>Function</b>	metal ion binding; protein binding; protein binding, bridging; sequence-specific DNA binding; sequence-specific DNA binding transcription factor activity; zinc ion binding;

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