Protein Phosphatase 2A Inhibitor Protein, 
2-α - GST Tagged
human, recombinant
expressed in E. coli

Product Number P 2618
Storage Temperature –70 °C

Synonyms: I2αPP2A-GST; I2PP2A-GST; GST-I2α

Product Description
Human Protein Phosphatase 2A Inhibitor Protein, 2-α -GST tagged (I2PP2A-GST) is a GST fusion of I2PP2A, a potent heat-stable PP2A inhibitor. This fusion protein has a molecular mass of approximately 67 kDa. All known activities of the native protein are maintained in this fusion form, making it a highly effective tool for binding and pull-down studies.

This protein inhibits all forms of PP2A with a k_i of approximately 0.1 nM with myelin basic protein, histone H1, and other substrates, but not with casein. PP2A is inhibited by this protein in a manner noncompetitive with the substrate and it is considered specific for PP2A. I2PP2A has been determined to be the equivalent of the acute undifferentiated leukemia-associated SET protein (also termed PHAP-II and TAF-1β). Additionally, I2PP2A has been shown to act as an activator of c-Jun and AP-1 directed gene expression. I2PP2A is primarily located in the nucleus of most mammalian cell types.

PP2A is a major mammalian protein serine/threonine phosphatase involved in the regulation of diverse cellular processes. This regulation is effected through control of signaling pathways by a mechanism of phosphorylation/dephosphorylation with a variety of protein kinases. Importantly, PP2A is believed to play a role in the regulation of NF-κB signaling, which has been shown to promote cell survival and escape from apoptosis.

This product is supplied as a solution of 50 mM Tris-HCl, pH 7.0, containing 14 mM 2-mercaptoethanol, 1 mM benzamidine, 0.1 mM PMSF, 1 mM EDTA, 0.1% BRIJ® 35, and 10% glycerol.

Purity: minimum 90% (SDS-PAGE)

Precautions and Disclaimer
This product is for laboratory use only. Please consult the Material Data Safety Sheet for information regarding hazards and safe handling practices.

Storage/Stability
The product ships on dry ice and it is recommended to store the product at –70 °C. After thawing, store stock solutions as aliquots at –70 °C. Avoid repeated freeze-thaw cycles.

References


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