

Product Data Sheet

GNAO1 Protein, Mouse (His)

Cat. No.:	HY-P72207			
Synonyms:	Gnao1; Gna0; GnaoGuanine nucleotide-binding protein Go; subunit alpha			
Species:	Mouse			
Source:	E. coli			
Accession:	P18872 (G2-Y354)			
Gene ID:	14681			
Molecular Weight:	Approximately 44 kDa			

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PROPERTIES

AA Sequence							
	GCTLSAEERA	ALERSKAIEK	NLKEDGISAA	KDVKLLLLGA			
	GESGKSTIVK	QMKIIHEDGF	SGEDVKQYKP	VVYSNTIQSL			
	AAIVRAMDTL	GVEYGDKERK	Т	SRMEDTEPFS			
	AELLSAMMRL	WGDSGIQECF	NRSREYQLND	SAKYYLDSLD			
	RIGAGDYQPT	EQDILRTRVK	TTGIVETHFT	FKNLHFRLFD			
	VGGQRSERKK	WIHCFEDVTA	IIFCVALSGY	DQVLHEDETT			
	NRMHESLMLF	DSICNNKFFI	DTSIILFLNK	KDLFGEKIKK			
	SPLTICFPEY	PGSNTYEDAA	AYIQTQFESK	N R S P N K E I Y C			
	НМТСАТDТNN	IQVVFDAVTD		GLY			
Appearance	Lyophilized powder.						
Formulation	Lyophilized from a 0.2 μm solution of Tris-based buffer, 50% Glycerol.						
Endotoxin Level	<1 EU/µg, determined by LAL method.						
Reconsititution	It is not recommended to reconstitute to a concentration less than 100 μ g/mL in ddH ₂ O.						
Storage & Stability	Stored at -20°C for 2 years. After reconstitution, it is stable at 4°C for 1 week or -20°C for longer (with carrier protein). It						
	recommended to freeze aliquots at -20°C or -80°C for extended storage.						
Shipping	Room temperature in continental US may vary elsewhere						

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DESCRIPTION Background GNA01, a member of guanine nucleotide-binding proteins (G proteins), serves as a crucial modulator or transducer in diverse transmembrane signaling systems, although the specific function of the G(o) protein remains unclear. Comprising three units—alpha, beta, and gamma—G proteins play an essential role in mediating cellular responses to extracellular signals. The alpha chain of GNA01 hosts the guanine nucleotide binding site, a key element in its regulatory activity. GNA01

forms a complex with GNB1 and GNG3, highlighting the intricate interplay within the G protein structure. Furthermore, GNAO1 is stimulated by RGS14 and interacts with regulatory proteins like RGS19, further elucidating its involvement in finely tuned signal modulation.

Caution: Product has not been fully validated for medical applications. For research use only.

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