SNAP-alpha Protein, Human (His)

Cat. No.:	HY-P71326
Synonyms:	Alpha-Soluble NSF Attachment Protein; SNAP-Alpha; N-Ethylmaleimide-Sensitive Factor Attachment Protein Alpha; NAPA; SNAPA
Species:	Human
Source:	E. coli
Accession:	P54920 (M1-R295)
Gene ID:	8775
Molecular Weight:	33-35 kDa

PROPERTIES

AA Sequence	MDNSGKEAEA MALLAEAERK VKNSQSFFSG LFGGSSKIEE ACEIYARAAN MFKMAKNWSA AGNAFCQAAQ LHLQLQSKHD AATCFVDAGN AFKKADPQEA INCLMRAIEI YTDMGRFTIA AKHHISIAEI YETELVDIEK AIAHYEQSAD YYKGEESNSS ANKCLLKVAG YAALLEQYQK AIDIYEQVGT NAMDSPLLKY SAKDYFFKAA LCHFCIDMLN AKLAVQKYEE LFPAFSDSRE CKLMKKLLEA HEEQNVDSYT ESVKEYDSIS RLDQWLTTML LRIKKTIQGD EEDLR
Biological Activity	Data is not available.
Appearance	Lyophilized powder.
Formulation	Lyophilized from a 0.2 μm filtered solution of sterile 20 mM Tris-HCl, 150 mM NaCl, pH 8.0 or 50 mM Tris-HCL, 300 mM NaCl, pH 7.4, 5% trehalose, 5% mannitol and 0.01%Tween 80.
Endotoxin Level	<1 EU/μg, determined by LAL method.
Reconsititution	It is not recommended to reconstitute to a concentration less than 100 μg/mL in ddH_2O.
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 is recommended to freeze aliquots at -20°C or -80°C for extended storage.
Shipping	Room temperature in continental US;may vary elsewhere.

DESCRIPTION

Background	SNAP-alpha Protein stands as an indispensable player in vesicular transport, facilitating the dynamic exchange between the endoplasmic reticulum and the Golgi apparatus. Its collaboration with GNA12 extends its influence, promoting the

localization of CDH5 to the plasma membrane. Moreover, SNAP-alpha engages in intricate protein interactions, forming complexes with PRKCABP and participating in the disruption of the interaction between GRIA2 and PRKCABP, consequently driving the internalization of GRIA2. Within a sophisticated SNARE-like assembly, SNAP-alpha takes its place alongside ZW10, USE1L, RINT1, STX18, and NAPA, revealing its integral role in membrane fusion events. This versatile protein further expands its interaction repertoire by engaging with VAMP8, VTI1A, and STX12. The complex interplay of SNAP-alpha in diverse cellular processes underscores its significance as a key orchestrator in the intricate landscape of intracellular transport and membrane dynamics.

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