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**Product Data Sheet**


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Product Name: NAPG Human  
 Cat. No.: GP24007  
 Batch No.: 1

**Product Data**

Purity	>98%	Source	Escherichia Coli.
Physical Appearance	solid	Shipping Condition	Shipped with Ice Packs.
Synonyms	Gamma-soluble NSF attachment protein; SNAP-gamma; N-ethylmaleimide-sensitive factor attachment protein gamma; NAPG; SNAPG; GAMMASNAP.		
Amino Acid Sequence	MGSSHHHHHH SGLVPRGSH MGSMAAQKI NEGLEHLAKA EKYLKTGFLK WKPDYDSAAS EYGKAAVAFK NAKQFEQAKD ACLREAVAHE NNRALFHAAK AYEQAGMMLK EMQKLPEAVQ LIEKASMMYL ENGTPDTAAM ALERAGKLIE NVDPEKAVQL YQQTANVFEN EERLRQAVEL LGKASRLLVR GRRFDEAALS IQKEKNYKE IENYPTCYKK TIAQVLVHLH RNDYVAAERC VRESYSIPGF NGSEDCAALE QLLEGYDQQD QDQVSDVCNS PLFKYMDNDY AKLGLSLVVP GGGIKKKSPA TPQAKPDGVT ATAADEEEDE YSGGLC.		
Formulation	NAPG protein solution (1mg/ml) containing 20mM Tris-HCl buffer (pH8.0), 10% glycerol, 0.1M NaCl and 1mM DTT.		

**Introduction**

Gamma-SNAP (NAPG) is a cytoplasmic protein which binds to a membrane receptor complex composed of VAMP, SNAP25 and syntaxin. NAPG mediates the membrane binding of NSF, which is crucial for membrane fusion reactions. NSF and SNAPs seem to be general components of the intracellular membrane fusion system, and their action at specific sites of fusion needs be controlled by SNAP receptors specific to the membranes being fused. NAPG mediates platelet exocytosis and controls the membrane fusion events of this process.

**Stability**

Store at 4°C if entire vial will be used within 2-4 weeks. Store, frozen at -20°C for longer periods of time. For long term storage it is recommended to add a carrier protein (0.1%

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

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HSA or BSA). Avoid multiple freeze-thaw cycles.

### Background

NAPG Human Recombinant produced in E.Coli is a single, non-glycosylated polypeptide chain containing 336 amino acids (1-312 a.a.) and having a molecular mass of 37.3kDa. NAPG is fused to a 24 amino acid His-tag at N-terminus & purified by proprietary chromatographic techniques.

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