

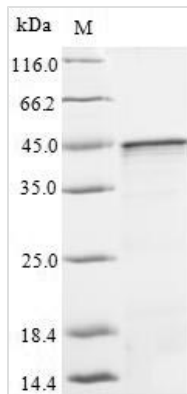


Recombinant Human Guanine nucleotide-binding protein subunit alpha-13 (GNA13)

Product Code	CSB-EP618885HU
Relevance	Guanine nucleotide-binding proteins (G proteins) are involved as modulators or transducers in various transmembrane signaling systems. Activates effector molecule RhoA by binding and activating RhoGEFs (ARHGEF1/p115RhoGEF, ARHGEF11/PDZ-RhoGEF and ARHGEF12/LARG). GNA13-dependent Rho signaling subsequently regulates transcription factor AP-1 (activating protein-1). Promotes tumor cell invasion and metastasis by activating RhoA/ROCK signaling pathway. Inhibits CDH1-mediated cell adhesion in process independent from Rho activation
Abbreviation	Recombinant Human GNA13 protein
Storage	The shelf life is related to many factors, storage state, buffer ingredients, storage temperature and the stability of the protein itself. Generally, the shelf life of liquid form is 6 months at -20°C/-80°C. The shelf life of lyophilized form is 12 months at -20°C/-80°C.
Uniprot No.	Q14344
Product Type	Recombinant Protein
Immunogen Species	Homo sapiens (Human)
Purity	Greater than 85% as determined by SDS-PAGE.
Sequence	MADFLPSRSVLSVCFPGCLLTSGEAEQQRKSKEIDKCLSREKTYVKRLVKILL GAGESGKSTFLKQMRIIHGQDFDQRRAREEFRPTIYSNVIKGMRLVLDAREKLHI PWGDNSNQQHGDKMMSFDTRAPMAAQGMVETRVFLQYLPAIRALWADSGIQ NAYDRRREFQLGESVKYFLDNLDKLGEPDYIPSQQDILLARRPTKGIHEYDFEI KNVPFKMVDVGGQRSEKRWFECDSDSVTSILFLVSSSEFDQVLMEDRLTNRL TESLNIFETIVNNRVFSNVSIILFLNKTDLLEEKVQIVSIKDYFLEFEGDPHCLRDV QKFLVECFRNKRRDQQKPLYHHFTTAINTENIRLVFRDVKDTILHDNLKQLML Q
Research Area	Signal Transduction
Source	E.coli
Target Names	GNA13
Protein Names	Recommended name: Guanine nucleotide-binding protein subunit alpha-13 Short name= G alpha-13 Short name= G-protein subunit alpha-13
Expression Region	1-377aa
Notes	Repeated freezing and thawing is not recommended. Store working aliquots at 4°C for up to one week.
Tag Info	N-terminal 6xHis-tagged
Mol. Weight	48.0 kDa


Protein Length

Full Length

Image


(Tris-Glycine gel) Discontinuous SDS-PAGE (reduced) with 5% enrichment gel and 15% separation gel.

Reconstitution

We recommend that this vial be briefly centrifuged prior to opening to bring the contents to the bottom. Please reconstitute protein in deionized sterile water to a concentration of 0.1-1.0 mg/mL. We recommend to add 5-50% of glycerol (final concentration) and aliquot for long-term storage at -20°C/-80°C. Our default final concentration of glycerol is 50%. Customers could use it as reference.

Shelf Life

The shelf life is related to many factors, storage state, buffer ingredients, storage temperature and the stability of the protein itself. Generally, the shelf life of liquid form is 6 months at -20°C/-80°C. The shelf life of lyophilized form is 12 months at -20°C/-80°C.