



Recombinant Human Heat-stable enterotoxin receptor (GUCY2C), partial (Active)

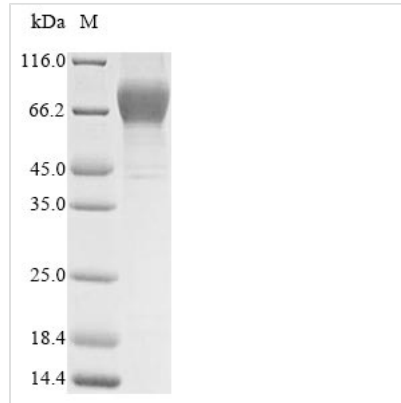
Product Code	CSB-MP010053HU
Relevance	Receptor for the E.coli heat-stable enterotoxin (E.coli enterotoxin markedly stimulates the accumulation of cGMP in mammalian cells expressing GC-C). Also activated by the endogenous peptides guanylin and uroguanylin.
Abbreviation	Recombinant Human GUCY2C protein, partial (Active)
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.	P25092
Form	Lyophilized powder
Storage Buffer	Lyophilized from a 0.2 µm filtered 20 mM Tris-HCl, 0.5 M NaCl, 6% Trehalose, pH 8.0
Product Type	Recombinant Protein
Immunogen Species	Homo sapiens (Human)
Biological Activity	Measured by its binding ability in a functional ELISA. Immobilized human GUCY2C at 5 µg/mL can bind Anti-GUCY2C recombinant antibody (CSB-RA010053A2HU), the EC ₅₀ is 11.89-24.13 ng/mL.
Purity	Greater than 95% as determined by SDS-PAGE.
Sequence	SQVSNCHNGSYEISVLMMGNSAFAEPLKNLEDAVNEGLEIVRGRQLQNAGLN VTVNATFMYSGLIHNSGDCRSSTCEGLDLLRKISNAQRMGCVLIGPSCTYST FQMYLDELTSYPMISAGSFGLSCDYKETLRLMSPARKLMYFLVNFWKTNLDP FKTYSWSTSYVYKNGTETEDCFWYLNALASVSYSFHELGFKVVLRQDKEFQ DILMDHNRKSNVIIMCGGPEFLYKLGDRAVAEDIVILVDLFNDQYFEDNVTAP DYMKNVLVLTSPGNLLNSSFSRNLSPTKRDFALAYLNGILLFGHMLKIFLEN GENITTPKFAHAFRNLTFEGYDGPVTLDDWGDVDSTMVLLYTSVDTKKYKVL TYDTHVNKTYPVDMSPFTFWKNSKLPNDITGRGPQ
Research Area	Microbiology
Source	Mammalian cell
Target Names	GUCY2C
Protein Names	Guanylyl cyclase C (GC-C) (Intestinal guanylate cyclase) (GUC2C) (STAR)
Expression Region	24-430aa
Notes	Repeated freezing and thawing is not recommended. Store working aliquots at 4°C for up to one week.
Tag Info	N-terminal 10xHis-tagged



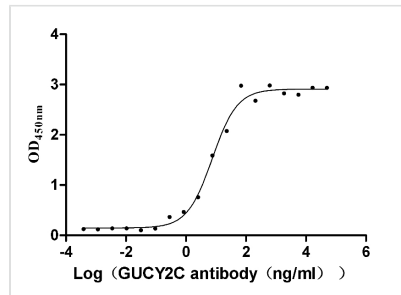
Mol. Weight 49.6 kDa

Protein Length Partial

Image



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



Activity

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Endotoxin Less than 1.0 EU/ug as determined by LAL method.

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.