

GUCY2C/Guanylyl cyclase C Protein, Cynomolgus (HEK293, His)

Cat. No.:	HY-P77679
Synonyms:	Guanylyl cyclase C; GC-C; STAR; GUCY2C; GUC2C; STA receptor; DIAR6; MUCIL
Species:	Cynomolgus
Source:	HEK293
Accession:	XP_005570270 (S24-Q430)
Gene ID:	102130850
Molecular Weight:	60-75 kDa

PROPERTIES

Biological Activity	Immobilized Cynomolgus GUCY2C, His Tag at 2µg/ml (100µl/Well) on the plate. Dose response curve for Anti-GUCY2C Antibody, hFc Tag with the EC ₅₀ of 103.3ng/ml determined by ELISA.
Appearance	Lyophilized powder.
Formulation	Lyophilized from a 0.22 µm filtered solution of PBS, pH 7.4. Normally 5% trehalose is added as protectant before lyophilization.
Endotoxin Level	<1 EU/µg, determined by LAL method.
Reconstitution	It is not recommended to reconstitute to a concentration less than 100 µg/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 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	GUCY2C, a guanylyl cyclase, plays a pivotal role in catalyzing the synthesis of cyclic (cGMP) from GTP. Acting as a receptor for the E. coli heat-stable enterotoxin, GUCY2C responds to the toxin by significantly stimulating the accumulation of cAMP in mammalian cells expressing this protein. This interaction highlights the intricate regulatory mechanisms involved in cellular signaling and emphasizes the role of GUCY2C in mediating responses to specific external stimuli.
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Caution: Product has not been fully validated for medical applications. For research use only.

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