

Recombinant Human GUCY1A3 293 Cell Lysate

Cat. No. GUCY1A3-5677HCL **Lot. No.** (See product label)

SPECIFICATION

Product Overview

Species	Human
Source	HEK293
Description	Antigen standard for guanylate cyclase 1, soluble, alpha 3 (GUCY1A3), transcript variant 1 is a lysate prepared from HEK293T cells transiently transfected with a TrueORF gene-carrying pCMV plasmid (True ORF cDNA clone RC206063, OriGene Technologies, Inc.) and then lysed in RIPA Buffer. Protein concentration was determined using a colorimetric assay. The antigen control carries a C-terminal Myc/DDK tag for detection.
Components	This product includes 3 vials: 1 vial of gene-specific cell lysate, 1 vial of control vector cell lysate, and 1 vial of loading buffer. Each lysate vial contains 0.1 mg lysate in 0.1 ml (1 mg/ml) of RIPA Buffer (50 mM Tris-HCl pH7.5, 250 mM NaCl, 5 mM EDTA, 50 mM NaF, 1% NP40). The loading buffer vial contains 0.5 ml 2X SDS Loading Buffer (125 mM Tris-Cl, pH6.8, 10% glycerol, 4% SDS, 0.002% Bromophenol blue, 5% beta-mercaptoethanol).
Size	0.1 mg
Storage Instruction	Store at -80°C. Minimize freeze-thaw cycles. After addition of 2X SDS Loading Buffer, the lysates can be stored at -20°C. Product is guaranteed 6 months from the date of shipment.

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Applications

ELISA, WB, IP. WB: Mix equal volume of lysates with 2X SDS Loading Buffer. Boil the mixture for 10 min before loading (for membrane protein lysates, incubate the mixture at room temperature for 30 min). Load 5 ug lysate per lane.

GENE INFORMATION
Gene Name

[GUCY1A3 guanylate cyclase 1, soluble, alpha 3 \[Homo sapiens \]](#)

Official Symbol

GUCY1A3

Synonyms

GUCY1A3; guanylate cyclase 1, soluble, alpha 3; GUC1A3; guanylate cyclase soluble subunit alpha-3; GC SA3; GCS-alpha-1; GCS-alpha-3; GC-S-alpha-1; soluble guanylate cyclase large subunit; GUCA3; GC-SA3; GUCSA3; GUCY1A1;

Gene ID

[2982](#)

mRNA Refseq

[NM_000856](#)

Protein Refseq

[NP_000847](#)

MIM

[139396](#)

UniProt ID

[Q02108](#)

Chromosome Location

4q31.3-q33

Pathway

Gap junction, organism-specific biosystem; Gap junction, conserved biosystem; Hemostasis, organism-specific biosystem; Long-term depression, organism-specific biosystem; Long-term depression, conserved biosystem; Myometrial Relaxation and Contraction Pathways, organism-specific biosystem; Nitric oxide stimulates guanylate

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cyclase, organism-specific biosystem;

Function

GTP binding; guanylate cyclase activity; heme binding; nucleotide binding; receptor activity;

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