

Recombinant Human GUCY1A3 293 Cell Lysate

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

SPECIFICATION

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.
Applications	ELISA, WB, IP. WB: Mix equal volume of lysates with 2X SDS Loading Buffer. Boil

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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 cyclase, organism-specific biosystem;

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Function

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

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