GUCY1A2 Lysate – Tissue Lysate

PRODUCT OVERVIEW

Product Name	GUCY1A2, Lysate
Full Product Name	Human GUCY1A2 Protein Lysate
Product Gene Name	GUCY1A2 lysate
Product Synonym Names	GUCY1A2; GC-SA2; GUC1A2
Host	Human
Form/Format	Lyophilized
Preparation and Storage	Store at -20 degree C Once reconsituted, aliquot and store any remaining material at-20 degree C to avoid repeated freeze-thaw cycles.
Molecular Weight	83,986 Da
OMIM	601244
3D Structure	ModBase 3D Structure for P33402
Related Product Information for GUCY1A2 lysate	Human GUCY1A2 Protein Lysate 20ug is provided as a Lyophilized powder. This is a Recombinant Protein Lysate produced in HEK293T cells. This protein lysate can be reconsituted using SDS Sample Buffer.
Other Notes	Small volumes of GUCY1A2 lysate vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.
Searchable Terms for GUCY1A2 purchase	MBS8412696 is a lysate targeting GUCY1A2. Also known as Human GUCY1A2 Protein Lysate. Host: Human.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for GUCY1A2. It may not necessarily be applicable to this product.

NCBI GI #	4504211
NCBI GeneID	2977
NCBI Accession #	NP_000846
UniProt Primary Accession #	P33402
UniProt Secondary Accession #	A1L4C4; B7ZLT5
UniProt Related Accession #	P33402
GenBank Nucleotide #	NM_000855
NCBI Official Full Name	guanylate cyclase soluble subunit alpha-2 isoform 2
NCBI Official Synonym Full Names	guanylate cyclase 1 soluble subunit alpha 2
NCBI Official Symbol	GUCY1A2
NCBI Official Synonym Symbols	GC-SA2; GUC1A2
UniProt Protein Name	Guanylate cyclase soluble subunit alpha-2

Protein Family	Guanylate cyclase soluble
UniProt Gene Name	GUCY1A2
UniProt Synonym Gene Names	GUC1A2; GUCSA2
UniProt Entry Name	GCYA2_HUMAN
NCBI Protein Information	guanylate cyclase soluble subunit alpha-2
NCBI Summary for GUCY1A2	Soluble guanylate cyclases are heterodimeric proteins that catalyze the conversion of GTP to 3',5'-cyclic GMP and pyrophosphate. The protein encoded by this gene is an alpha subunit of this complex and it interacts with a beta subunit to form the guanylate cyclase enzyme, which is activated by nitric oxide. Two transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, Jan 2012]
UniProt Comments for GUCY1A2	GUCY1A2: Has guanylyl cyclase on binding to the beta-1 subunit. Belongs to the adenylyl cyclase class-4/guanylyl cyclase family. 2 isoforms of the human protein are produced by alternative splicing. Protein type: Lyase; Nucleotide Metabolism - purine; EC 4.6.1.2; Guanylyl cyclase Chromosomal Location of Human Ortholog: 11q21-q22 Cellular Component: cytoplasm Molecular Function: guanylate cyclase activity; GTP binding; heme binding Biological Process: cGMP biosynthetic process; positive regulation of cGMP biosynthetic process; blood coagulation; signal transduction
Research Articles on GUCY1A2	**1.** The data support a novel regulatory mechanism whereby sGC activity is tuned by distinct domain interactions that either promote or inhibit catalytic activity.
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