

Recombinant Human GUCY1A1 Protein, Myc/DDK-tagged, C13 and N15-labeled

Cat. No. GUCY1A1-3508H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	GUCY1A3 MS Standard C13 and N15-labeled recombinant protein (NP_000847) with a C-terminal MYC/DDK tag, was expressed in HEK293 cells.
Species	Human
Source	HEK293
Description	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. Several transcript variants encoding a few different isoforms have been found for this gene.
Molecular Mass	77.5 kDa
AA Sequence	MFCTKLKDLKITGECPFSLAPGQVPNESSEEAAGSSECKATMPICQDIPEKNIQES LPQRKTSRSRVYLHTLAESICKLIFPEFERLNVALQRTLAKHKIKESRKSLEREDFEKT IAEQAVALAGVPVEVIKESLGEEVFKICYEEDENILGVVGGLTKDFLNSFSTLLKQSSHC QEAGKGRGRLEDASILCLDKEDDFLHVYFFPKRTTSLILPGIHKAAAHVLYETEVEVSL MPPCFHNDCESEFVNQPYLLYSVHMKSTKPSLSPSKPQSSLVIPSTLFCCKTFPFHFMF DKDMTILQFGNGIRRLMNRRDFQGKPNFEEYFEILTPKINQTFSGIMTMLNMQFVVR VRRWDNSVKKSSRVMDLKGQMIYIVESSAILFLGSPCVDRLEDFTGRGLYLSDIPIHN ALRDVVLIGEQAQAQDGLKKRLGKLKATLEQAHQALEEEKKKTVDLLCSIFPCEVAQ

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QLWQGQVVQAKKFSNVTMLFSDIVGFTAICSQCSPLQVITMLNALYTRFDQQCGEL
 DVYKVETIGDAYCVAGGLHKESDTHAVQIALMAVKMMELSDEVMSPHGEPIKMRIGL
 HSGSVFAGVVGVKMPRYCLFGNNVTLANKFESCSVPRKINVSPTTYRLLKDCPGFV
 FTPRSREELPPNFPSEIPGICHFLDAYQQGTNSKPCFQKKDVEDGNANFLGKASGID
 TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Purity > 80% as determined by SDS-PAGE and Coomassie blue staining

Stability Stable for 3 months from receipt of products under proper storage and handling conditions.

Storage Store at -80 centigrade. Avoid repeated freeze-thaw cycles.

Concentration 50 µg/mL as determined by BCA

Storage Buffer 100 mM glycine, 25 mM Tris-HCl, pH 7.3.

GENE INFORMATION

Gene Name [GUCY1A1 guanylate cyclase 1 soluble subunit alpha 1 \[Homo sapiens \(human\) \]](#)

Official Symbol [GUCY1A1](#)

Synonyms GUCY1A1; guanylate cyclase 1 soluble subunit alpha 1; GUCA3; MYMY6; GC-SA3; GUC1A3; GUCA3; GUCY1A3; GCS-alpha-3; GC-S-alpha-1; guanylate cyclase soluble subunit alpha-1; guanylate cyclase 1, soluble, alpha 3; soluble guanylate cyclase large subunit; EC 4.6.1.2

Gene ID [2982](#)

mRNA Refseq [NM_000856](#)

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Protein Refseq	NP_000847
MIM	139396
UniProt ID	Q02108

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