

Recombinant Full Length Human GUCY1A3 Protein, GST-tagged

Cat. No. GUCY1A3-3345HF Lot. No. (See product label)

SPECIFICATION

Product Overview	Human GUCY1A3 full-length ORF (AAH28384.1, 1 a.a. - 690 a.a.) recombinant protein with GST-tag at N-terminal.
Species	Human
Source	In Vitro Cell Free System
ProteinLength	690 amino acids
Description	Soluble guanylate cyclase (sGC), a heterodimeric protein consisting of an alpha subunit, such as alpha-1 (GUCY1A3), and a beta subunit, typically beta-1 (GUCY1B3; MIM 139397), catalyzes conversion of GTP to the second messenger cGMP and functions as the main receptor for nitric oxide and nitrovasodilator drugs (Zabel et al., 1998 [PubMed 9742212]).[supplied by OMIM
Molecular Mass	103.9 kDa
AA Sequence	MFCTKLKDLKITGECPFSLAPGQVPNESSEEAAGSSESCKATMPICQDIPEKNIQES LPQRKTSRSRVYLHTLAESICKLIFPEFERLNVALQRTLAKHKIKESRKSLEREDFEKT IAEQAVAAGVPVEVIKESLGEEVFKICYEEDENILGVVGGTLKDFLNSFSTLLKQSSHC QEAGKRGRLEDASILCLDKEDDFLHVYFFPKRTTSLILPGIICAAAHVLYETEVEVSL MPPCFHNDCESEFVNQPYLLYSVHMKSTKPSLSPSKPQSSLVIPSTLFCCKTFPFHFMF DKDMTILQFNGIRRLMNRRDFQGKPNFEEYFEILTPKINQTFSGIMTMLNMQFVVR VRRWDNSVKKSSRVMDLKGQMIYIVESSAILFLGSPCVDRLEDFTGRGLYLSDIPIHN

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ALRDVVLIGEQARAQDGLKKRLGKLGKATLEQAHQALEEEKKKTVDLLCSIFPCEVAQ
 QLWQGQVVQAKKFSNVTMLFSDIVGFTAICSQCSPLQVITMLNALYTRFDQQCGEL
 DVYKVVETIGDAYCVAGGLHKESDTHAVQIALMAVKMMELSDEVMSPHGEPKMRIGL
 HSGSVFAGVVGKMPRYCLFGNNVTLANKFESCSVPRKINVSPPTYRLLKDCPGFV
 FTPRSREELPPNFPSEIPGICHFLDAYQQGTNSKPCFQKKDVEDGNANFLGKASGID

Applications
 Enzyme-linked Immunoabsorbent Assay
 Western Blot (Recombinant protein)
 Antibody Production
 Protein Array

Notes Best use within three months from the date of receipt of this protein.

Storage Store at -8 centigrade. Aliquot to avoid repeated freezing and thawing.

Storage Buffer 50 mM Tris-HCl, 10 mM reduced Glutathione, pH=8.0 in the elution buffer.

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](#)

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Protein Refseq NP_000847

MIM 139396

UniProt ID Q02108

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