

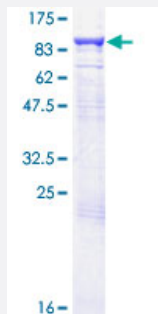
Full-Length

GUCY1A3 (Human) Recombinant Protein (P01)

Catalog # H00002982-P01

Size 25 ug, 10 ug

Applications



Specification

Product Description

Human GUCY1A3 full-length ORF (AAH28384.1, 1 a.a. - 690 a.a.) recombinant protein with GST-tag at N-terminal.

Sequence

MFCTKLKDLKITGECPFSLAPGQVPNESSEEAAGSSESCATMPICQDIPEKNIQESLPQRKTSR
SRVYLHTLAESICKLIFPEFERLNVALQRTLAKHKIKESRKSLEDFFEKTAEQAVAAGVPVEVIKE
SLGEEVFKICYEEDENILGVVGGTLKDFLNSFSTLLKQSSHCQEAGKRGRLEDASILCLDKEDDFL
HVVYFFPKRTTSLILPGIICAAAHLVYETEVEVSLMPPCFHNDCESEFVNQPYLLYSVHMKSTKPSLS
PSKPQSSSLVIPTSLFCKTFPFHMFDMTILQFGNGIRRLMNRDFFQGKPNFEEYFEILTPKINQT
FSGIMTMLNMQFVVRVRRWDNSVKKSSRVMDLKGQMIYVESSAILFLGSPCVDRLDFTGRGLY
LSDIPIHNALRDVVLIGEQAQAQDGLKKRLGKLKATLEQAHAQALEEEKKKTVDLLCSIFPCEVAQQ
LWQQQVVQAKKFSNVTMLFSDVGFATCSQCSPLQVITMLNALYTRFDQQCGELDVYKVTIGDA
YCVAGGLHKESDTHAVQIALMAVKMMELSDEVMSPHGEPIKMRIGLHSGSVFAGVVGVMKMPRYC
LFGNNVTLANKFESCSVPRKINVSPPTYRLLKDCPGFVFTPRSREELPPNFPSEIPGICHFLDAYQ
QGTNSKPCFQKKDVEDGNANFLGKASGD

Host

Wheat Germ (in vitro)

Theoretical MW (kDa)

103.9

Preparation Method

[in vitro wheat germ expression system](#)

Purification

Glutathione Sepharose 4 Fast Flow

Quality Control Testing

12.5% SDS-PAGE Stained with Coomassie Blue.

Storage Buffer	50 mM Tris-HCl, 10 mM reduced Glutathione, pH=8.0 in the elution buffer.
Storage Instruction	Store at -80°C. Aliquot to avoid repeated freezing and thawing.
Note	Best use within three months from the date of receipt of this protein.

Applications

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

Gene Info — GUCY1A3

Entrez GeneID	2982
GeneBank Accession#	BC028384.2
Protein Accession#	AAH28384.1
Gene Name	GUCY1A3
Gene Alias	GC-SA3, GUC1A3, GUCA3, GUCSA3, GUCY1A1
Gene Description	guanylate cyclase 1, soluble, alpha 3
Omim ID	139396
Gene Ontology	Hyperlink
Gene Summary	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]
Other Designations	GC-S-alpha-1 soluble guanylate cyclase large subunit

Pathway

- [Gap junction](#)
- [Long-term depression](#)
- [Purine metabolism](#)
- [Vascular smooth muscle contraction](#)