

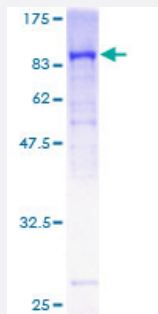
Full-Length

GUCY1B3 (Human) Recombinant Protein (P01)

Catalog # H00002983-P01

Size 25 ug, 10 ug

Applications



Specification

Product Description

Human GUCY1B3 full-length ORF (AAH47620, 1 a.a. - 619 a.a.) recombinant protein with GST-tag at N-terminal.

Sequence

MYGFVNHALELLVIRNYGPEVWEDIKKEAQLDEEGQFLVRIYDDSKTYDLVAAASKVLNLNAGEIL
QMFGKMFVFCQESGYDTILRVLGSNVREFLQNLDAHDHLATYPGMRAPSFRCCTDAEKGLIL
HYYSEREGLQDMVIGIKTVAQQIHGTEIDMKVIQQRNEECDHTQFLIEEKESKEEDFYEDLDRFEEN
GTQESRISPYTFCKAFPFHIFDRDLVVTQCGNAYRVLPQLQPGNCSLLSVFSLVRPHIDISFHGILS
HINTVFVLRKEGLLDVEKLECEDELGTGEISCLRLKGQMMLEADSLFLCSPSVMNLDDLTRRG
LYLSDIPLHDATRDVLVLLGEQFREEYKLTQEILEITDRLQLTLRALEDEKKKTDLLYSVLPPSVANE
LRHKRPVPAKRYDNVTILFSGIVGFNAFCSKHASGEGAMKIVNLLNDLYTRFDLTDSRKNPFVYK
VETVGDKYMTVSGLPEPCIHHARSICHLALDMMEIAGQVQVDGESVQITIGHTGEVVTGVIGQRMP
RYCLFGNTVNLTSRTETTGEKGKINVSEYTYRCLMSPENSDPQFHLEHRGPVSMKGKKEPMQVW
FLSRKNTGTEETKQDDD

Host

Wheat Germ (in vitro)

Theoretical MW (kDa)

93.61

Interspecies Antigen Sequence

Mouse (99); Rat (99)

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 — GUCY1B3

Entrez GeneID	2983
GeneBank Accession#	BC047620
Protein Accession#	AAH47620
Gene Name	GUCY1B3
Gene Alias	GC-S-beta-1, GC-SB3, GUC1B3, GUCB3, GUCSB3, GUCY1B1
Gene Description	guanylate cyclase 1, soluble, beta 3
Omim ID	139397
Gene Ontology	Hyperlink
Gene Summary	Soluble guanylate cyclase (sGC), a heterodimeric protein consisting of an alpha subunit and a beta subunit, typically GUCY1B3, catalyzes conversion of GTP to the second messenger cGMP and functions as the main receptor for nitric oxide (NO) and nitrovasodilator drugs (Zabel et al., 1998 [PubMed 9742212]).[supplied by OMIM]
Other Designations	-

Pathway

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