Recombinant Human GUCY1B3, His-tagged

Cat. No. GUCY1B3-13619H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human GUCY1B3 protein, fused to His-tag, was expressed in E.coli and purified by Ni-sepharose.
Species	Human
Source	E.coli
ProteinLength	282-619a.a.
Description	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]).
Storage	The protein is stored in PBS buffer at -20℃. Avoid repeated freezing and thawing cycles.
Storage Buffer	1M PBS (58mM Na2HPO4,17mM NaH2PO4, 68mM NaCl, pH8.) added with 300mM Imidazole and 0.7% Sarcosyl, 15%glycerol.

GENE INFORMATION

Gene Name	GUCY1B3 guanylate cyclase 1, soluble, beta 3 [Homo sapiens]
Official Symbol	GUCY1B3

Tel: 1-631-559-9269 1-516-512-3133
Email: info@creative-biomart.com Fax: 1-631-938-8127
45-1 Ramsey Road, Shirley, NY 11967, USA

Synonyms	GUCY1B3; guanylate cyclase 1, soluble, beta 3; GUC1B3; guanylate cyclase soluble subunit beta-1; GC S beta 1; GC SB3; GCS-beta-1; GCS-beta-3; soluble guanylate cyclase small subunit; guanylate cyclase soluble subunit beta-3; GUCB3; GC-SB3; GUCSB3; GUCY1B1; GC-S-beta-1;
Gene ID	2983
mRNA Refseq	NM_000857
Protein Refseq	NP_000848
MIM	139397
UniProt ID	Q02153
Chromosome Location	4q31.3-q33
Pathway	Gap junction, organism-specific biosystem; Gap junction, conserved biosystem; Hemostasis, organism-specific biosystem; Long-term depression, organism-specific biosystem; Long-term depression, conserved biosystem; Nitric oxide stimulates guanylate cyclase, organism-specific biosystem; Platelet homeostasis, organism-specific biosystem;
Function	GTP binding; Hsp90 protein binding; guanylate cyclase activity; heme binding; ion binding; metal ion binding; nucleotide binding; protein heterodimerization activity; receptor activity;

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