

Recombinant Human GUCY1B1 Protein, Myc/DDK-tagged, C13 and N15-labeled

Cat. No. GUCY1B1-2308H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	GUCY1B3 MS Standard C13 and N15-labeled recombinant protein (NP_000848) with a C-terminal MYC/DDK tag, was expressed in HEK293 cells.
Species	Human
Source	HEK293
Description	This gene encodes the beta subunit of the soluble guanylate cyclase (sGC), which catalyzes the conversion of GTP (guanosine triphosphate) to cGMP (cyclic guanosine monophosphate). The encoded protein contains an HNOX domain, which serves as a receptor for ligands such as nitric oxide, oxygen and nitrovasodilator drugs. Alternative splicing results in multiple transcript variants.
Molecular Mass	70.5 kDa
AA Sequence	MYGFVNHALELLVIRNYGPEVWEDIKKEAQLDEEGQFLVRIIYDDSKTYDLVAAASKV LNLNAGEILQMFGKMFFVFCQESGYDTILRVLGSNVREFLQNLDALHDHLATIYPGM RAPSFRCCTDAEKKGKGLILHYYSEREGLDIVIGIIKTVAQQIHGTEIDMKVIQQRNEEC DHTQFLIEEKESKEEDFYEDLDRFEENGQTQESRISPYTFCKAFPFHIIIFDRDLVVTQC GNAIYRVLPQLQPGNCSLLSVFSLVRPHIDISFHGILSHINTVFVLRKEGLLDVEKLE CEDELTGTEISCLRLKGQMIYLPEADSILFLCSPSVMNLLDLTRRGLYLSDIPLHDATR DLVLLGEQFREEYKLTQELEILTDRQLTLRALEDEKKKTDLLYSVLPPSVANELRH KRPVPAKRYDNVTILFSGIVGFNAFCSKSHASGEGAMKIVNLLNDLYTRFDTLTDSRKN

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PFVYKVETVGDKYMTVSGLPEPCIHHARSICHLALDMMEIAGVQVVDGESVQITIGIH
TGEVVTGVIGQRMPPRYCLFGNTVNLTSRTETTGEKGKINVSEYTYRCLMSPENSDP
QFHLEHRGPVSMKGKKEPMQVWFLSRKNTGTEETKQDDDTRTRPLEQKLISEEDLA
ANDILDYKDDDDKV

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 [GUCY1B1 guanylate cyclase 1 soluble subunit beta 1 \[Homo sapiens \(human\) \]](#)

Official Symbol [GUCY1B1](#)

Synonyms GUCY1B1; guanylate cyclase 1 soluble subunit beta 1; GUCB3; GC-SB3; GUC1B3; GUCSB3; GUCY1B3; GC-S-beta-1; guanylate cyclase soluble subunit beta-1; GCS-beta-1; GCS-beta-3; guanylate cyclase 1, soluble, beta 3; guanylate cyclase soluble subunit beta-3; soluble guanylate cyclase small subunit; EC 4.6.1.2

Gene ID [2983](#)

mRNA Refseq [NM_000857](#)

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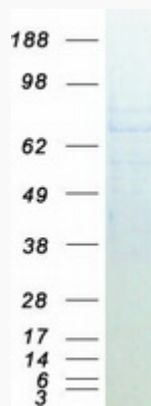
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Protein Refseq NP_000848

MIM 139397

UniProt ID Q02153

SDS-PAGE



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