

Recombinant Human Guanylate Cyclase 1, Soluble, Alpha 3, His-tagged

Cat. No. GUCY1A3-627H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human Guanylate Cyclase 1, Soluble, Alpha 3 is produced in <i>Sf9</i> cells fused at the C-terminus to a His-tag. MW= 70kDa-86kDa.
Species	Human
Source	Sf9 Cells
Description	Guanylate cyclase soluble subunit alpha-3 is an enzyme that in humans is encoded by the GUCY1A3 gene. Soluble guanylate cyclase (sGC), a heterodimeric protein consisting of an alpha and a beta subunit, catalyzes the conversion of GTP to the second messenger cGMP and functions as the main receptor for nitric oxide and nitrovasodilator drugs.
Purity	≥90% (SDS-PAGE).
Concentration	0.4mg/ml.
Formulation	Liquid. In 40mM TEA, pH 7.4 containing 2mM DTT, 1mM MgCl ₂ and 30% glycerol.
Application	Biophysical and enzymatic studies and drug screening.
Specificity	≥0.075μmol/mg/min.
Storage And Stability	-80°C. We do not recommend to store for longer periods after opening and thawing of

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the product. Avoid freeze/thaw cycles.

GENE INFORMATION

Gene Name	GUCY1A3 guanylate cyclase 1, soluble, alpha 3 [Homo sapiens]
Synonyms	GUCY1A3; guanylate cyclase 1, soluble, alpha 3; GUCA3; GC-SA3; GUC1A3; GUCSA3; GUCY1A1; guanylate cyclase soluble subunit alpha-3; GCS-alpha-1; GCS-alpha-3; GC-S-alpha-1; soluble guanylate cyclase large subunit; EC 4.6.1.2
Gene ID	2982
mRNA Refseq	NM_000856
Protein Refseq	NP_000847
MIM	139396
UniProt ID	Q02108
Chromosome Location	4q31.3-q33; 4q31.1-q31.2
Pathway	Gap junction; Long-term depression; Purine metabolism; Vascular smooth muscle contraction
Function	GTP binding; guanylate cyclase activity; heme binding; ion binding; nucleotide binding; protein heterodimerization activity; receptor activity

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