

HG CPG™ Solid Supports

Your trusted partner for end-to-end
oligonucleotide synthesis

Why Choose HG CPG™

Raw glass

Native CPG

LCAA-CPG

HG CPG™

Batch size up to 30 kg.



One-stop-shop Synthesis

Hongene has oversight of all manufacturing processes, from **raw glass** to **loaded CPG products**. This ensures **exquisite quality** and **cost control**.



Diversified Product Offering

HG CPG™ is available with 500, 1000, and 2000 Å loading with all **standard protected nucleoside chemistries**, and a wide range of **custom** and **universal linkers**.



Outstanding Quality

Hongene HG CPG™ are manufactured and loaded in compliance with **ISO 9001:2015** quality management system standards.



Proven Synthesis Performance

HG CPG™ has been rigorously tested for **synthesis performance** and can also be used for **cGMP oligonucleotide manufacturing**.

Specifications of HG CPG™ Native CPGs

	500Å	1000Å	2000Å
Particle size mesh (µm)	120-200	120-200	120-200
Pore Size (Å)	530±30	1050±50	2000±100
Pore Volume (cc/g)	≥0.8	≥0.8	≥0.8
Specific Surface Area (m²/g)	≥75	≥25	≥25

Use test of GalNAc- and Universal linker-loaded HG CPG™

	500Å LCAA-CPG		1000Å LCAA-CPG		2000Å LCAA-CPG	
Test items	Functional Loading (µmol/g)	FLP (24mers)	Functional Loading (µmol/g)	FLP (40mers)	Functional Loading (µmol/g)	FLP (40mers)
GalNAc Linker	47-52	77%-80%	26-33	65-69%	25-27	58-63%
N-Ph Universal Linker	80-90	78%-81%	36-45	72-77%	31-34	68-70%

Note:

Functional test was performed by Mermade12. All **2'-OMe** units.

Available HG CPG™ Products

All products can also be delivered in standard synthesis **columns**, **plates** and **frits**.

Loading capacity of HG CPG™ products

CPG-500Å	CPG-1000Å	CPG-2000Å
40-60 / 60-80 / 80+ μmol/g	25-40 / 40-50 μmol/g	25-40 μmol/g

Nucleoside CPGs

Note: Corresponding succinates available as well.

DNA	RNA	2'-F	2'-OMe	2'-O-MOE	Locked	Reverse DNA	Abasic
A/G/C/T	A/G/C/U	A/G/C/U	A/G/C/U	A/G/C/U/ MeU/MeC	A/G/C/U/ MeU/MeC	A/G/C/U/T	/

Modifier CPGs

GalNAc CPG
Gal3C2

Linker CPG			
Cholesterol-TEG	Tocopherol-TEG	3'-C7-Myristyl / Palmityl / Stearyl	3'-C7-DCA / EHA / EPA

Functional Modifier CPGs						
3'-Thiol C3 / C6	3'-Spacer -C3	3'-Phosphate	PC-DCA	3'-C7-PC	3'-Amino- C6-dT	3'-PT-Amino-C3 / C6 / C7
Pyro-Azide	DIO	Biotin-TEG	Amino-ON			

Dye & Quencher CPGs

Dye CPGs						
Dabcyl	CDPI3	6-FAM	6-TAMRA	HEX	TET	Cyanine 3 / 3.5 / 5 / 5.5

Quencher CPGs			
HDQ-1	HDQ-2	Deep Dark Quencher 1	Minor Groove Binder

Universal Linker CPGs

N-Substituent		
N-iPr	N-Me	N-Ph

Inquiries welcome for
custom loaded CPG.

Let's Bring Your RNA to Life.



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