PET-cGMP-8-TMAmd-(PEG pd 2000)-AmdMT-8-cGMP-PET

Polymer-linked dimeric (PLD) cGMP analogue

Polymer-linked dimeric (PLD) cGMP analogue in which two cGMP units are linked by a polydisperse 2000 Dalton spacer on basis of polyethylene glycol (PEG) via thio-functions at the C8 positions. In addition, β-phenyl-1,N2-etheno (PET) groups have been attached to both guanine nucleobases. Membrane-permeant cGMP dimer with enhanced PKG activation properties by addressing two binding sites simultaneously with a single molecule.
Activation constants of PET-cGMP-8-TMAmd-(PEG pd 2000)-AmdMT-8-cGMP-PET in vitro on purified cGMP-dependent protein kinase (PKG) isozymes were measured to be in the range of < 1 nM (PKG1α and PKG1β) and ~80 nM (PKG2), respectively (BIOLOG in-house data). PET-cGMP-8-TMAmd-(PEG pd 2000)-AmdMT-8-cGMP-PET decreased cell viability in the PKG2 expressing colon cancer cell line Caco-2, but not in the PKG2 expressing colon cancer cell lines HCT 116 and HT-29.

BLG-P059-05 (5 x 1 µmol pack size) is not sold in the U.S. or Canada. Please contact us for available options.

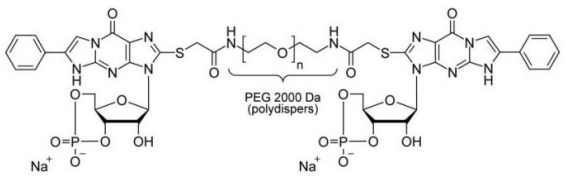
Ordering Information

Order Online »

BLG-P059-01	1µmol
BLG-P059-05	5x1µmol

Manuals, SDS & CofA

View Online »


PEG 2000 Da
(polydispers)
Na+
Na+

Handling & Storage

Long Term Storage	-20°C
Shipping	Ambient Temperature

Regulatory Status

RUO - Research Use Only

Product Details

Alternative Name	β-Phenyl-1,N2-ethenoguanosine-3′,5′-cyclic monophosphate-[8-thiomethylamido-(PEG pd 2000)-amidomethylthio-8]-β-phenyl-1,N2-ethenoguanosine-3′,5′-cyclic monophosphate . sodium salt
Couple Type	Modified nucleotides
Formula	~ $C_{130}H_{216}N_{12}O60P_2S_2$ (free acid)
MW	~ 3033
Purity	> 95% HPLC (est.)
Technical Info / Product Notes	For the Original Manufacturer's data sheet please click here.

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