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

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 thioethers at the C8 positions. Membrane-permeant cGMP dimer with enhanced PKG activation properties by addressing two binding sites simultaneously with a single molecule.
Activation constants of cGMP-8-TMAmd-(PEG pd 2000)-AmdMT-8-cGMP in vitro on purified cGMP-dependent protein kinase (PKG) isozymes were measured to be in the range of 7.7 ± 1.3 nM (PKG1α), 21 ± 2 nM (PKG1β), and 2.1 ± 0.6 nM (PKG2), respectively. The compound significantly reduced proliferation, migration and increased cell death in two melanoma cell lines. In the colon cancer cell lines Caco-2 and HCT 116, treatment with cGMP-8-TMAmd-(PEG pd 2000)-AmdMT-8-cGMP led to a significant reduction of cell viability.

BLG-G043-05 (5 x 1 µmol pack size) is not sold in the U.S. or Canada. Please contact us for available options.

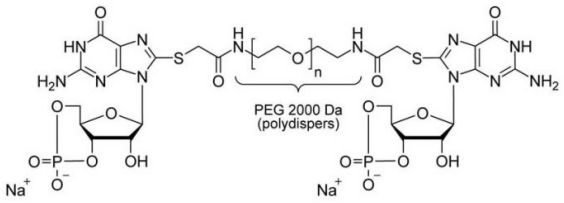
Ordering Information

Order Online »

BLG-G043-01	1µmol
BLG-G043-05	5x1µmol

Manuals, SDS & CofA

View Online »


PEG 2000 Da
(polydispers)

Handling & Storage

Long Term Storage	-20°C
Shipping	Ambient Temperature

Regulatory Status

RUO - Research Use Only

Product Details

Alternative Name	Guanosine-3′,5′-cyclic monophosphate-[8-thiomethylamido-(PEG pd 2000)-amidomethylthio-8]-guanosine-3′,5′-cyclic monophosphate . sodium salt
Couple Type	Modified nucleotide
Formula	~ $C_{114}H_{208}N_{12}O_{60}P_2S_2$ (free acid)
MW	~ 2833 (free acid)
Purity	> 95% HPLC (est.)
Technical Info / Product Notes	For the Original Manufacturer's data sheet please click here.

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