cGMP-8-T-$(EO)_5$-ET-8-cGMP

Polymer-linked dimeric (PLD) cGMP analogue

Polymer-linked dimeric (PLD) cGMP analogue in which two cGMP units are linked by a spacer with 5 ethylene oxide units 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-T-$(EO)_5$-ET-8-cGMP in vitro on purified cGMP-dependent protein kinase (PKG) isozymes were measured to be in the range of < 1 nM (PKG1β and PKG2) and < 0.8 nM (PKG1α), respectively. The compound significantly reduced proliferation and migration combined with increased cell death in two melanoma cell lines. In the colon cancer cell line HT-29, treatment with cGMP-8-T-$(EO)_5$-ET-8-cGMP led to a significant reduction of cell viability.

BLG-G031-05 (5 x 1 µmol pack size) is not sold in the U.S. or Canada. Please contact us for available options.

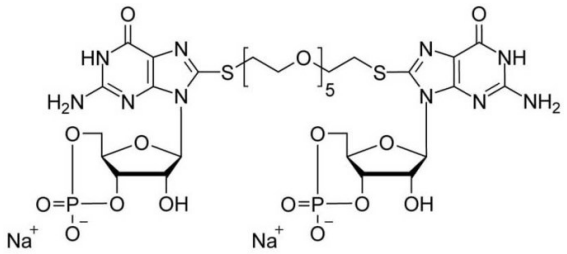
Ordering Information

Order Online »

BLG-G031-01	1µmol
BLG-G031-05	5x1µmol

Manuals, SDS & CofA

View Online »



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-thio-(pentaethoxy)-ethylthio-8]-guanosine-3′,5′-cyclic monophosphate . sodium salt

CAS 2156612-58-5

Couple Type Modified nucleotide

Formula $C_{32}H_{44}N_{10}O_{19}P_2S_2 \cdot Na_2$

MW 1044.8

Purity > 98% HPLC

Technical Info / Product Notes For the Original Manufacturer's data sheet please click here.

ENZO LIFE SCIENCES, INC.
Phone: 800.942.0430
info-usa@enzolifesciences.com

European Sales Office
ENZO LIFE SCIENCES (ELS) AG
Phone: +41 61 926 8989
info-eu@enzolifesciences.com

Belgium, The Netherlands & Luxembourg
Phone: +32 3 466 0420
info-be@enzolifesciences.com

France
Phone: +33 472 440 655
info-fr@enzolifesciences.com

Germany
Phone: +49 7621 5500 526
info-de@enzolifesciences.com

UK & Ireland
Phone (UK customers): 0845 601 1488
Phone: +44 1392 825900
info-uk@enzolifesciences.com

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