
Product Data Sheet

Product Name: Glucose-conjugated MGMT inhibitor

Cat. No.: GC36153

Chemical Properties

Cas. No. 382607-78-5

SMILES [H][C@]1([C@]([H])(O[C@@](OCCCCCCCCN2C3=C(N=C2)C(OCC4=CC(Br)=CS4)=NC(N)=N3)([C@](O)([C@]1(O)[H])[H])[H])CO)O

Formula C₂₄H₃₄BrN₅O₇S M.Wt 616.53

Solubility DMSO: 100 mg/mL (162.20 mM) Storage Store at -20°C

General tips For obtaining a higher solubility , please warm the tube at 37 °C and shake it in the ultrasonic bath for a while. Stock solution can be stored below -20°C for several months.

Shipping Condition Evaluation sample solution : ship with blue ice All other available size: ship with RT , or blue ice upon request.

Structure **Protocol****Kinase experiment:**

For the assays, 100 mg cell extract protein are used. In each assay, a negative and a positive sample, HeLa MR (MGMT-deficient) and HeLa S3 cell extract, respectively, are included. Incubation occurs in buffer contain-ing 700 mM HEPES-KOH (pH 7.8), 10 mM dithiothreitol and 50 mM EDTA for 90 min, which is the optimal time span for the reaction to be completed. Data are expressed as femtomoles of radioactivity trans-ferred from 3H-methylnitrosourea-labeled DNA to protein per milligram of protein within O6BTG-octylglucoside[1].

Caution: Product has not been fully validated for medical applications. For research use only.

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References:

[1]. Jost Reinhard, et al. Inactivation of O6-methylguanine-DNA methyltransferase by glucose-conjugated inhibitors. Int.J.Cancer. (2001) 93,373-379.

Background

Glucose-conjugated MGMT inhibitor is a potent O6-methylguanine-DNA methyltransferase (MGMT) inhibitor, with IC50s of 32 nM in vitro (cell extracts) and 10 nM in HeLa S3 cells. MGMT|32 nM (IC50)

Glucose-conjugated MGMT inhibitor (O6BTG-octylglucoside) is a potent and non-toxic MGMT inhibitor, with IC50s of 32 nM in vitro (cell extracts) and 10 nM in HeLa S3 cells[1].

[1]. Jost Reinhard, et al. Inactivation of O6-methylguanine-DNA methyltransferase by glucose-conjugated inhibitors. Int.J.Cancer. (2001) 93,373-379.

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