

2-deoxy-D-Glucose-13C6 Biochemical

2-deoxy-D-Glucose-13C6

CATALOG #
AAA227064

PRODUCT SYNONYMS

2-deoxy-D-Glucose-13C6; 2-deoxy-D-Glucose-13C6 biochemical

PRODUCT SPECIFICATIONS

Purity/Purification	98%
Solubility	H2O: Soluble DMSO: Soluble <1mg/ml refers to the product slightly soluble or insoluble
In vitro	In vivo, 2-deoxy-D-glucose (500 mg/kg) reduces tumor growth in 143B osteosarcoma and MV522 non-small cell lung cancer mouse xenograft models when used alone or in combination with doxorubicin or paclitaxel.6
Preparation and Storage	Powder: -20 degree C for 3 years In solvent: -80 degree C for 2 years

IMAGES

NSSNYCCELCCNPACTGCT
(Disulfide bridge:Cys 6-11;Cys 7-15;Cys 10-18)

Structure
STh, CAS 118447-40-8

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ADDITIONAL INFORMATION

Related Product Information for 2-deoxy-D-Glucose-13C6 biochemical	2-deoxy-D-Glucose-13C6is intended for use as an internal standard for the quantification of 2-deoxy-D-glucose by GC- or LC-MS. 2-deoxy-D-Glucose is a glucose antimetabolite and an inhibitor of glycolysis.1,2It inhibits hexokinase, the enzyme that converts glucose to glucose-6-phosphate, as well as phosphoglucose isomerase, the enzyme that converts glucose-6-phosphate to fructose-6-phosphate.32-deoxy-D-Glucose (16 mM) induces apoptosis in SK-BR-3 cells, as well as inhibits the growth of 143B osteosarcoma cells cultured under hypoxic conditions when used at a concentration of 2 mg/ml.4,5
References	1. Pål PUNTERVOLL, et al. Heat-stable enterotoxins mutants as antidiarrheal vaccine antigens. WO2020039387A1.

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://www.aaabiotech.com/biochemical/2-deoxy-d-glucose-13c6/227064>