

ABX

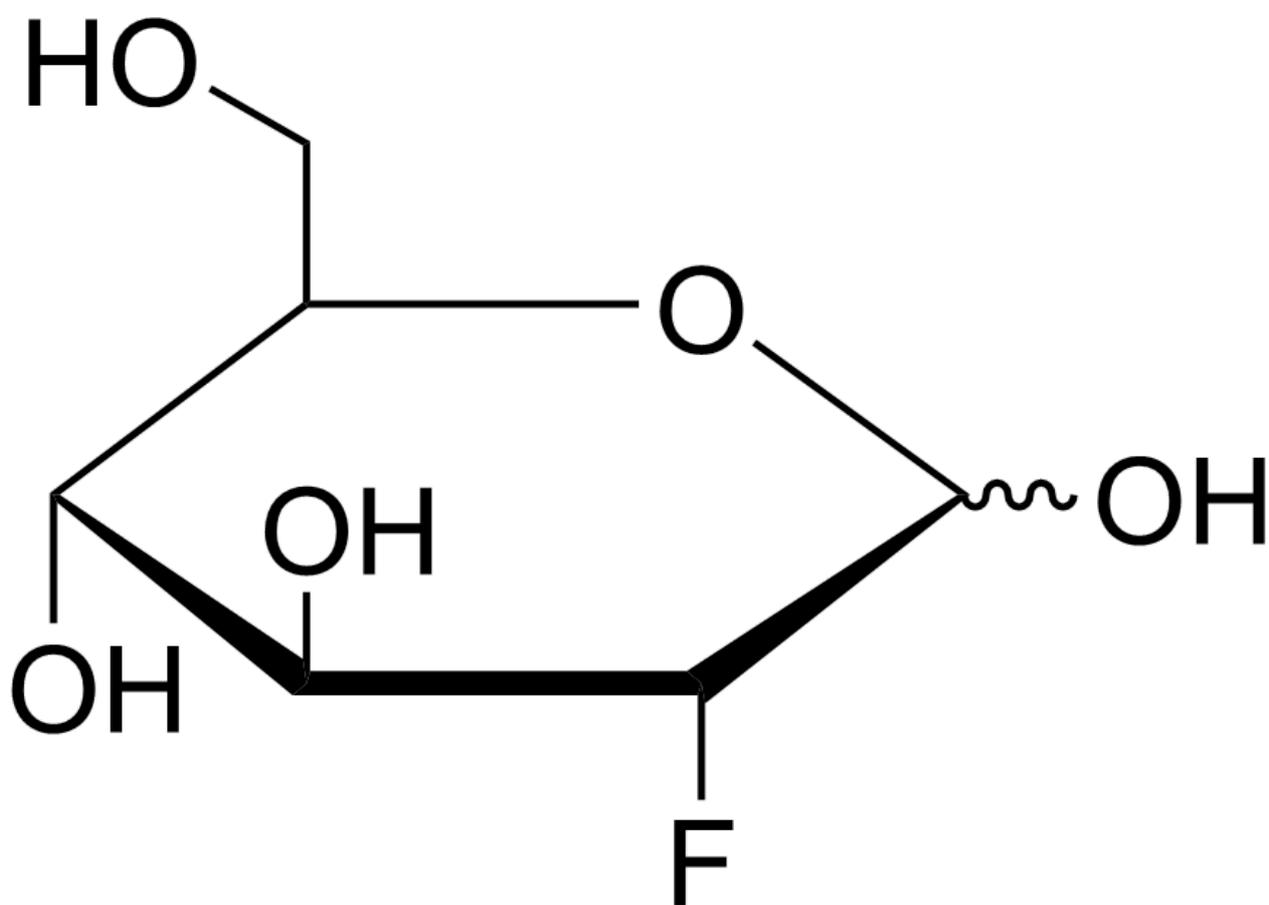
ABX Website > Products > Small molecules & peptides

SMALL MOLECULES & PEPTIDES

FDG

Reference standard for [¹⁸F]FDG synthesis (2-[¹⁸F]fluoro-2-deoxy-D-glucose)
2-Deoxy-2-fluoro-D-glucose; 2-Deoxy-fluoro-glucose; Fludeoxyglucose

CA index name: D-Glucopyranose, 2-deoxy-2-fluoro-



QUALITY

Research Chemical

CHARACTERISTICS

Molar mass 182.15

CAS RN [86783-82-6] (pyranoside); [29702-43-0] (aldehyde)

Purity ≥ 95 %

Colorless to off-white solid

soluble in methanol, dimethyl sulfoxide, water

CERTIFICATES

CoA: appearance, ¹H and ¹⁹F NMR spectra

PRODUCT SHEETS (PDF)

↓ [MSDS_1100_eng](#)

LITERATURE

Hamacher K. *et al.* Efficient stereospecific synthesis of no-carrier-added 2-[¹⁸F]fluoro-2-deoxy-D-glucose using aminopolyether supported nucleophilic substitution. *J. Nucl. Med.* **1986**, *27*, 235–238.

Padgett H.C. *et al.* Computer-controlled radiochemical synthesis: a chemistry process control unit for the automated production of radiochemicals. *Appl. Radiat. Isot.* **1989**, *40*, 433–445.

Tóth G. *et al.* Synthesis of 2-deoxy-2-[¹⁸F]Fluoro-D-glucose and its precursors for human diagnostics. *Izotóptechnika, Diagnosztika* **1992**, *35*, 65–72.

Füchtner F. *et al.* Basic Hydrolysis of 2-[¹⁸F]Fluoro-1,3,4,6-tetra-*O*-acetyl-D-glucose in the Preparation of 2-[¹⁸F]Fluoro-D-glucose. *Appl. Radiat. Isot.* **1996**, *47*, 61–66.

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[¹⁸F]FDG – multiple runs →