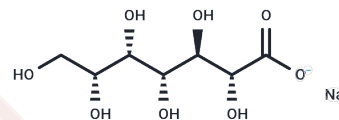


Sodium Glucoheptonate

Chemical Properties

CAS No. :	31138-65-5
Formula:	C ₇ H ₁₃ NaO ₈
Molecular Weight:	248.16
Storage:	Powder: -20°C for 3 years In solvent: -80°C for 1 year Actual storage temperature shall be subject to the COA.



Biological Description

Description	Sodium Glucoheptonate is used as a kit for Tc-99m radiolabeling, as well as for metal cleaning, mercerizing, paint stripping and aluminum etching. Among other things, Tc-99m glucoheptonate is a kidney and brain imaging agent that can be used to detect brain tumors.
Targets(IC50)	Others
In vivo	Tc-99m glucoheptonate demonstrates rapid blood clearance and stable blood levels, particularly in primary and metastatic lesions of the posterior fossa. The diagnostic yield is enhanced with delayed glucoheptonate (GH) scans [2].

Solubility Information

Solubility	DMSO: 4.62 mg/mL (18.62 mM), Sonication is recommended. H ₂ O: 50 mg/mL (201.48 mM), Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
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Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	4.0297 mL	20.1483 mL	40.2966 mL
5 mM	0.8059 mL	4.0297 mL	8.0593 mL
10 mM	0.403 mL	2.0148 mL	4.0297 mL
50 mM	0.0806 mL	0.403 mL	0.8059 mL

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. Please use it as soon as possible.

Note: The dilution table applies only to solid products. For liquid products, please calculate the stock solution based on the stated concentration and/or density.

Reference

Kieviet W. Technetium radiopharmaceuticals: chemical characterization and tissue distribution of Tc-glucoheptonate using Tc-99m and carrier Tc-99. J Nucl Med. 1981 Aug; 22(8):703-9.

Léveillé J, et, al. Technetium-99m glucoheptonate in brain-tumor detection: an important advance in radiotracer techniques. J Nucl Med. 1977 Oct;18(10):957-61.

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Tel:781-999-4286 E_mail:info@targetmol.com Address:34 Washington Street,Wellesley Hills,MA 02481