

Certificate of Analysis

www.tocris.com

Product Name: Heparin sodium salt

Catalog No.: 2812

Batch No.: 11

CAS Number: 9041-08-1

1. PHYSICAL AND CHEMICAL PROPERTIES

Physical Appearance:	White solid
Solubility:	water to 50 mg/ml
Storage:	Store at RT

2. ANALYTICAL DATA

Biological Activity:	206 IU/mg
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Caution - Not Fully Tested • Research Use Only • Not For Human or Veterinary Use

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Product Information

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Product Name: Heparin sodium salt

Catalog No.: 2812

Batch No.: 11

CAS Number: 9041-08-1

Description:

Heparin sodium salt is a minimum activity: > 150 I.U./mg. Glycosaminoglycan that behaves as an anticoagulant. Binds with high affinity to antithrombin III (AT-III). Used in protocols to generate kidney or brain organoids from human pluripotent stem cells. For more information about how Heparin sodium salt may be used, see our protocol: Generation of Kidney Organoids from hPSCs, Cultivating Cerebral Organoids Please see product specific page on www.tocris.com for full description.

Physical and Chemical Properties:

Physical Appearance: White solid

Storage: Store at RT

Solubility & Usage Info:

water to 50 mg/ml

CAUTION - This product is hygroscopic and we recommend that it is desiccated upon arrival. This product has a molecular weight between 8000 and 25000g/mol.

Stability and Solubility Advice:

Some solutions can be difficult to obtain and can be encouraged by rapid stirring, sonication or gentle warming (in a 45-60°C water bath).

Information concerning product stability, particularly in solution, has rarely been reported and in most cases we can only offer a general guide. *Unless contradicted by product-specific protocols or instructions, our standard recommendations apply:

SOLIDS: Provided storage is as stated on the product label and the vial is kept tightly sealed, the product can be stored for up to 6 months from date of receipt.

SOLUTIONS: We recommend that stock solutions, once prepared, are stored aliquoted in tightly sealed vials at -20°C or below and used within 1 month. Wherever possible solutions should be made up and used on the same day.

References:

Schafer (2023) An *in vivo* neuroimmune organoid model to study human microglia phenotypes. *Cell* **186** 1222. PMID: 37172564.

Takasato et al (2016) Generation of kidney organoids from human pluripotent stem cells. *Nat.Protoc.* **11** 1681. PMID: 1681.

Lever and Page (2002) Novel drug development opportunities for he. *Nat.Rev.Drug Discov.* **1** 140. PMID: 12120095.

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