

Produktinformation



Forschungsprodukte & Biochemikalien
Zellkultur & Verbrauchsmaterial
Diagnostik & molekulare Diagnostik
Laborgeräte & Service

Weitere Information auf den folgenden Seiten! See the following pages for more information!



Lieferung & Zahlungsart siehe unsere Liefer- und Versandbedingungen

Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

SZABO-SCANDIC HandelsgmbH

Quellenstraße 110, A-1100 Wien T. +43(0)1 489 3961-0 F. +43(0)1 489 3961-7 <u>mail@szabo-scandic.com</u> www.szabo-scandic.com

Data Sheet (Cat.No.T6531)



Heparin sodium salt

| Chemical Proper | ties | |
|-------------------|--|----------------|
| CAS No. : | 9041-08-1 | |
| Formula: | C26H42N2NaO37S5 | Heparin sodium |
| Molecular Weight: | 1157.89 | salt |
| Appearance: | no data available | oun |
| Storage: | Powder: -20°C for 3 years In solvent: -80°C for 1 year | |
| | | |

| Biological Description | | |
|-------------------------------|--|--|
| Description | Heparin sodium is a sulfated polysaccharide, which belongs to the family of glycosaminoglycans. It is utilized as an anticoagulant and interacted with diverse proteins for numerous important biological activities.Heparin sodium salt (Sodium heparinate) significantly inhibits exosome-cell interactions. | |
| Targets(IC50) | Factor Xa,Thrombin,Autophagy | |
| In vitro | Heparin contains a speci?c pentasaccharide sequence that binds and activates the plasma proteinase inhibitor AT, which accounts for most of the increase in inhibitory activity toward Factor Xa induced by heparin. Heparin binds, via the speci?c pentasaccharide sequence, to AT is a two-step process, involving formation of an initial complex with a Kd of ~ 4×10?5M, followed by conformational changes in both the AT and saccharide moieties. Heparin 12-mer binds to FGF2 monomer covalently is able to induce FGFR activation (stimulate mitogenesis). [1] Heparin induces aggregation of platelets in citrated platelet-rich plasma and enhances platelet aggregation and serotonin secretion induced by other agents, and this action of heparin is blocked by substances that elevate platelet cyclic AMP and by EDTA but not by inhibitors of platelet cyclooxygenase. [2] Heparin controls, through a post-translational mechanism, the levels of specific cassettes of positively charged proteases inside mast cells. [3] Heparin activates the inhibition of thrombin by antithrombin by bringing them into close apposition, but there is also a direct activation of inhibition due to an overall conformational change induced by the binding to the core pentasaccharide present in both heparin and heparans. [4] | |
| Kinase Assay | In vitro assay of CYP17: The in vitro CYP17 inhibitory activity of Galeterone is evaluated using rapid acetic acid releasing assay (AARA), utilizing intact P450c17-expressing E. coli as the enzyme source. It involves the use of [21-3H]-17α-hydroxypregnenolone as the substrate, and CYP17 activity is measured by the amount of tritiated acetic acid formed during the cleavage of the C-21 side chain of the substrate. IC50 value is obtained directly from plots relating percentage inhibition versus inhibitor concentration over appropriate ranges. | |

Solubility Information

A DRUG SCREENING EXPERT

| Solubility | H2O: 20 mg/mL,Sonication is recommended. | |
|------------|---|--|
| | (< 1 mg/ml refers to the product slightly soluble or insoluble) | |

Preparing Stock Solutions

| | 1mg | 5mg | 10mg |
|-------|-----------|-----------|-----------|
| 1 mM | 0.8636 mL | 4.3182 mL | 8.6364 mL |
| 5 mM | 0.1727 mL | 0.8636 mL | 1.7273 mL |
| 10 mM | 0.0864 mL | 0.4318 mL | 0.8636 mL |
| 50 mM | 0.0173 mL | 0.0864 mL | 0.1727 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.

Reference

Zhu H, Liu X, Wang X, et al.Gβγ subunit inhibitor decreases DOM-induced head twitch response via the PLCβ/IP3/Ca2+/ERK and cAMP signaling pathways.European Journal of Pharmacology.2023: 176038.

Inhibitor • Natural Compounds • Compound Libraries • Recombinant ProteinsThis product is for Research Use Only• Not for Human or Veterinary or Therapeutic UseTel:781-999-4286E_mail:info@targetmol.comAddress:36 Washington Street,Wellesley Hills,MA 02481