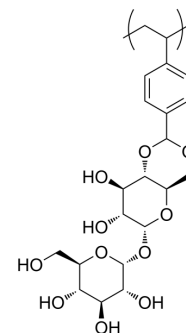


Poly(styrenyl acetal trehalose)

Cat. No.:	HY-150502
Molecular Formula:	C ₂₃ H ₃₄ O ₁₁
Target:	Biochemical Assay Reagents
Pathway:	Others
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



BIOLOGICAL ACTIVITY

Description	<p>Poly(styrenyl acetal trehalose) (pSAT) is composed of trehalose side chains linked to a polystyrene backbone via acetals. Poly(styrenyl acetal trehalose) stabilizes a variety of proteins and enzymes against fluctuations in temperature, and does not trigger the innate immune response. Poly(styrenyl acetal trehalose) can be used in synthesis of protein-polymer conjugates for reduced renal clearance of the biomolecule^[1].</p>																
In Vivo	<p>Poly(styrenyl acetal trehalose) (10 mg/kg; IV, single dosage) does not induce liver or kidney damage, and is safe in terms of acute toxicity in mice^[1].</p> <p>Poly(styrenyl acetal trehalose) (1 mg/kg; IP, twice, at the 0 and 14 day) does not induce the increase of pro-inflammatory cytokines and IgG^[1].</p> <p>MCE has not independently confirmed the accuracy of these methods. They are for reference only.</p> <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 30%;">Animal Model:</td> <td>Female CD-1 mice (6 weeks, n = 6)^[1]</td> </tr> <tr> <td>Dosage:</td> <td>10 mg/kg</td> </tr> <tr> <td>Administration:</td> <td>IV, single dosage</td> </tr> <tr> <td>Result:</td> <td>Did not induce liver or kidney damage, and was safe in terms of acute toxicity.</td> </tr> </table> <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 30%;">Animal Model:</td> <td>Female CD-1 mice (6 weeks, n = 6)^[1]</td> </tr> <tr> <td>Dosage:</td> <td>1 mg/kg</td> </tr> <tr> <td>Administration:</td> <td>IP, twice, at the 0 and 14 day</td> </tr> <tr> <td>Result:</td> <td> <p>Did not lead to IgG production.</p> <p>Led to a slight increase in the IgM level for weeks 1 and 2 but dropped to the negative control level by week 3.</p> <p>Did not induce the increase of pro-inflammatory cytokines.</p> </td> </tr> </table>	Animal Model:	Female CD-1 mice (6 weeks, n = 6) ^[1]	Dosage:	10 mg/kg	Administration:	IV, single dosage	Result:	Did not induce liver or kidney damage, and was safe in terms of acute toxicity.	Animal Model:	Female CD-1 mice (6 weeks, n = 6) ^[1]	Dosage:	1 mg/kg	Administration:	IP, twice, at the 0 and 14 day	Result:	<p>Did not lead to IgG production.</p> <p>Led to a slight increase in the IgM level for weeks 1 and 2 but dropped to the negative control level by week 3.</p> <p>Did not induce the increase of pro-inflammatory cytokines.</p>
Animal Model:	Female CD-1 mice (6 weeks, n = 6) ^[1]																
Dosage:	10 mg/kg																
Administration:	IV, single dosage																
Result:	Did not induce liver or kidney damage, and was safe in terms of acute toxicity.																
Animal Model:	Female CD-1 mice (6 weeks, n = 6) ^[1]																
Dosage:	1 mg/kg																
Administration:	IP, twice, at the 0 and 14 day																
Result:	<p>Did not lead to IgG production.</p> <p>Led to a slight increase in the IgM level for weeks 1 and 2 but dropped to the negative control level by week 3.</p> <p>Did not induce the increase of pro-inflammatory cytokines.</p>																

REFERENCES

Caution: Product has not been fully validated for medical applications. For research use only.

Tel: 609-228-6898

Fax: 609-228-5909

E-mail: tech@MedChemExpress.com

Address: 1 Deer Park Dr, Suite Q, Monmouth Junction, NJ 08852, USA