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# **ProductInformation**

#### **Pristane**

(2,6,10,14-Tetrametylpentadecane)

Product Number **P 2870** Storage at Room Temperature

#### **Product Description**

Molecular Formula: C<sub>19</sub>H<sub>40</sub> Molecular Weight: 268.5 CAS Number: 1921-70-6 Density: 0.782 g/ml Congealing Point: -100 °C<sup>1</sup>

Source: Synthetic

Pristane is an isoprenoid alkane that was initially isolated from the liver of the basking shark. Pristane is used to precondition the peritoneal cavity of mice, prior to the induction of ascites fluid with myeloma cells. Several different protocols for antibody production have been described in the literature. <sup>2,3,4</sup>

Pristane is used to induce plasmacytomas in mice as models of human myltiple myeloma.<sup>5</sup> It induces a disease similar to lupus erythematosus in mice, making it useful for autoimmune studies.<sup>6</sup> Pristane also induces arthritis in rats as a rodent model for the study of rheumatoid arthritis.<sup>7</sup>

### **Precautions and Disclaimer**

For Laboratory Use Only. Not for drug, household or other uses.

## **Preparation Instructions**

This product is miscible with hexane (10%[v/v]).

#### References

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- Hoogenraad, N.J. and Wraight, C.J., The effect of pristane on ascites tumor formation and monoclonal antibody formation. Methods in Enzymology, 121, 375-381 (1986).
- 3. Antibodies: A Laboratory Manual, Harlow, E., and Lane, D., Eds., Cold Spring Harbor Laboratory (Cold Spring Harbor, NY: 1988), p. 123.
- Lacy, M.J., and Voss, E.W., Jr., A modified method to induce immune polyclonal ascites fluid in BALB/c mice using Sp2/0-Ag14 cells, J. Immunol. Methods, 87, 169-177 (1986).
- 5. Gado, K., et al., Mouse plasmacytoma: an experimental model of human multiple myeloma. Haematologica, **86**, 227-36 (2001).
- Shaheen, V.M., et al., Immunopathogenesis of environmentally induced lupus in mice. Environ. Health Perspect., 107, 723-7 (1999).
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