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**Product Data Sheet**

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Product Name: CI 972 (anhydrous)

Cat. No.: GC35693

**Chemical Properties**

Cas. No. 115787-68-3

SMILES O=C1C(NC(N)=C2CC3=CSC=C3)=C2NC(N)=N1.[H]ClFormula C<sub>11</sub>H<sub>12</sub>ClN<sub>5</sub>OS M.Wt 297.76

Solubility Soluble in DMSO Storage Store at -20°C

General tips For obtaining a higher solubility, please warm the tube at 37 °C and shake it in the ultrasonic bath for a while. Stock solution can be stored below -20°C for several months.

Shipping Condition Evaluation sample solution : ship with blue ice All other available size: ship with RT, or blue ice upon request.

Structure **Background**

CI 972 anhydrous is a potent, orally active, and competitive inhibitor of purine nucleoside phosphorylase (PNP) (K<sub>i</sub>=0.83 μM) under development as a T cell-selective immunosuppressive agent[1][2]. K<sub>i</sub>: 0.83 μM (PNP)[1]

CI 972 anhydrous (5-150 mg/kg; p.o.) produces dose-dependent elevation of plasma inosine one hour after administration to rats[1].

[1]. Gilbertsen RB, et al. Biochemical and pharmacological properties of CI-972, a novel 9-deazaguanine analog purine nucleoside phosphorylase (PNP) inhibitor. *Adv Exp Med Biol.* 1991;309A:41-4. [2]. Gilbertsen RB, et al. Selective in vitro inhibition of human MOLT-4 T lymphoblasts by the novel purine nucleoside phosphorylase inhibitor, CI-972. *Biochem Biophys Res Commun.* 1991 Aug 15;178(3):1351-8.

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

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