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**Product Data Sheet**

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Product Name: Senazodan

Cat. No.: GC32526

**Chemical Properties**

Cas. No. 98326-32-0

SMILES O=C1CCC(C2=CC=C(NC3=CC=NC=C3)C=C2)=NN1Formula  $C_{15}H_{14}N_4O$  M.Wt 266.3

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**

Senazodan is a  $Ca^{2+}$  sensitiser, and also shows inhibition effect on PDE III.

Senazodan seems to affect directly the actin-myosin crossbridge kinetics, and increase myosin ATPase activity[1]. Senazodan produces a concentration-dependent increase in tension development. Senazodan enhance  $Ca^{2+}$  binding to myofilaments and to purified cardiac troponin C. Senazodan also enhances contractility in guinea-pig papillary muscles by inhibiting PDE III[2].

[1]. Lehtonen LA, et al. Pharmacokinetics and pharmacodynamics of intravenous inotropic agents. Clin Pharmacokinet. 2004;43(3):187-203. [2]. Erhardt L. An emerging role for calcium sensitisation in the treatment of heart failure. Expert Opin Investig Drugs. 2005 Jun;14(6):659-70.

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

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