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**Product Data Sheet**

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Product Name: Patamostat

Cat. No.: GC62306

**Chemical Properties**

Cas. No. 114568-26-2

Formula C<sub>20</sub>H<sub>20</sub>N<sub>4</sub>O<sub>4</sub>S

M.Wt 412.46

Solubility DMSO : 100 mg/mL (242.45 mM; Need ultrasonic)

Storage 4°C, away from moisture and light

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**

Patamostat (E-3123) is a potent protease inhibitor. Patamostat potently inhibits trypsin, plasmin and thrombin with IC<sub>50</sub>s of 39 nM, 950 nM and 1.9 μM, respectively. Patamostat may possess suppressing effects on pathogenesis and development of acute pancreatitis[1][2].

Patamostat (intravenous infusion) at 0.03-0.3 mg/kg in rats or at 0.3-3.0 mg/kg in rabbits reduces mortality after the induction of pancreatitis in a dose-dependent manner[1]. Patamostat (1.0-3.0 mg/kg; intravenous infusion) reduces the increases of serum trypsin and lipase activities in dogs with pancreatitis[1]. Patamostat (2 mg/kg per h; continuous infusion) improves almost all parameters, including mortality rate, serum and ascitic fluid amylase levels, plasma endotoxin and serum FDP levels, and distribution of lysosomal enzyme in male Wistar rats[2].

[1]. K Miyamoto, et al. [Effects of E-3123, a New Protease Inhibitor, on Several Protease Activities and on Experimental Acute Pancreatitis]. Nihon Yakurigaku Zasshi. 1988 May;91(5):285-93.

[2]. T Hirano, et al. Protective Effect of a Cephalosporin, Shiomarin, Plus a New Potent

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

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Protease Inhibitor, E3123, on Rat Taurocholate-Induced Pancreatitis. J Gastroenterol Hepatol. Jan-Feb 1993;8(1):52-9.

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