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## Product Data Sheet

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Product Name: Bavisant dihydrochloride

Cat. No.: GC35472

**Chemical Properties**

Cas. No. 929622-09-3

SMILES O=C(N1CCN(C2CC2)CC1)C(C=C3)=CC=C3CN4CCOCC4.[H]Cl.[H]ClFormula  $C_{19}H_{29}Cl_2N_3O_2$  M.Wt 402.36

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**

Bavisant Hcl (JNJ-31001074) is a highly selective, orally active antagonist of the human H3 receptor with a novel mechanism of action, involving wakefulness and cognition, with potential as a treatment for ADHD. IC50 Value: Target: H3 receptor in vitro: Bavisant completed a phase II ADHD trial, but no results have been reported [1]. in vivo: Mean change from baseline in the total ADHD-RS-IV score at day 42 (primary efficacy endpoint) was -8.8 in the placebo group versus -9.3, -11.2 and -12.2 in the bavisant 1•mg/day, 3•mg/day and 10•mg/day groups, respectively; the change in the 10•mg/day group was not statistically superior to placebo (p=0.161), and hence statistical comparisons of the 1•mg/day and 3•mg/day groups with placebo based on a step-down closed testing procedure were not performed [2]. Clinical trial: A Study to Characterize the Pharmacokinetics and Effect of Food on JNJ-31001074 in Healthy Volunteers. Phase 2

[1]. Robert L. Hudkins, Rita Raddatz, Ming Tao, Discovery and Characterization of 6-{4-[3-(R)-2-Methylpyrrolidin-1-yl]propoxy}phenyl}-2H-pyridazin-3-one (CEP-26401, Irdabisant): A Potent, Selective Histamine H3 Receptor Inverse Agonist. J. Med. Chem. 2011, 54 [2]. Weisler RH, Pandina GJ, Daly EJ, Randomized clinical study of a histamine H3 receptor antagonist for the treatment of adults with attention-deficit hyperactivity

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

Tel: (909) 407-4943 Fax: (626) 353-8530 E-mail: tech@glpbio.com

Address: 10292 Central Ave. #205, Montclair, CA, USA

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