



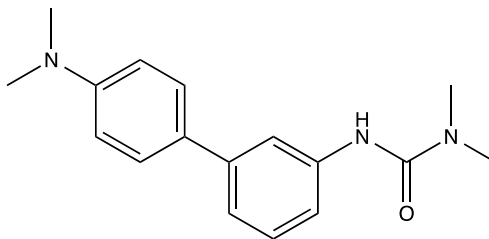
Catalog #10-4598

Atglistatin

1469924-27-3

N'-[4'-(Dimethylamino)[1,1'-biphenyl]-3-yl]-N,N,-dimethylurea

Lot # FBA3078



Atglistatin is the first small molecule inhibitor of adipose triglyceride lipase (ATGL) – $IC_{50} = 700 \text{ nM}$.¹ It exhibits high selectivity for ATGL, is active *in vitro* and *in vivo*, and does not inhibit other key metabolic lipases. ATGL is the rate limiting enzyme in lipolysis and is thus an excellent target to reduce fatty acid mobilization and decrease lipotoxicity in metabolic syndrome. Inhibition of ATGL may be a useful strategy to attack the increased metabolic rate of cancerous cells.²

- 1) Mayer *et al.* (2013), *Development of small-molecule inhibitors targeting adipose triglyceride lipase*; Nat.Chem.Biol. **9** 785
- 2) Zagani *et al.* (2015) *Inhibition of adipose triglyceride lipase (ATGL) by the putative tumor suppressor G0S2 or a small molecule inhibitor attenuates the growth of cancer cells*; Oncotarget **6** 28282

PHYSICAL DATA

| | |
|------------------------|---|
| Molecular Weight: | 283.37 |
| Molecular Formula: | C ₁₇ H ₂₁ N ₃ O |
| Purity: | >98% (TLC) |
| | NMR: (Conforms) |
| Solubility: | DMSO (5 mg/ml) and ethanol (5 mg/mL with warming) |
| Physical Description: | Off-white solid |
| Storage and Stability: | Store as supplied at -20°C for up to 2 years from the date of purchase. Solutions in DMSO or ethanol may be stored at -20°C for up to 3 months. |

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