

## Product Data Sheet

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Product Name: AVE5688

Cat. No.: GC31627

### Chemical Properties

Cas. No. 613260-13-2

SMILES O=C(O)C1=CC=C(NC(NC(C2=CC(F)=C(F)C=C2Cl)=O)=O)C(OC(F)(F)F)=C1

Formula  $C_{16}H_8ClF_5N_2O_5$  M.Wt 438.69

Solubility DMSO : 100 mg/mL (227.95 mM;      Storage      Store at -20°C  
Need ultrasonic)

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.

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

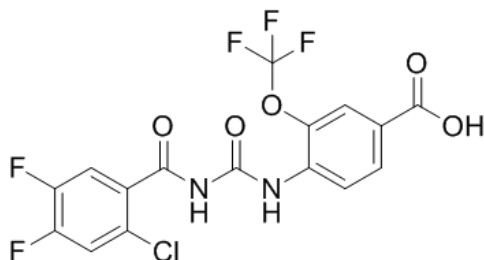
Tel: (909) 407-4943 Fax: (626) 353-8530 E-mail: tech@glpbio.com

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

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### Structure



### Protocol

#### Kinase experiment:

Glycogen phosphorylase activity is measured in the physiological direction of glycogen breakdown. rmGP is used for the kinetic characterization of the inhibitors (AVE5688). To routinely check the phosphorylation grade of enzyme batches, activity is measured in the direction of glycogen synthesis; the phosphorylation grade is estimated from the ratio of the activity in the presence of 0.5 mM caffeine to the activity in the presence of 2 mM AMP[1].

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### References:

[1]. Anderka O, et al. Thermodynamic characterization of allosteric glycogen phosphorylase inhibitors. Biochemistry. 2008 Apr 22;47(16):4683-91.

### Background

AVE5688 is an inhibitor of glycogen phosphorylase (GP), with IC<sub>50</sub>s of 430 nM and 915 nM and K<sub>d</sub>s of 170 nM and 530 nM for rabbit muscle glycogen phosphorylase (rmGPb and rmGPa, respectively); AVE5688 can be used for the research of type 2 diabetes.

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