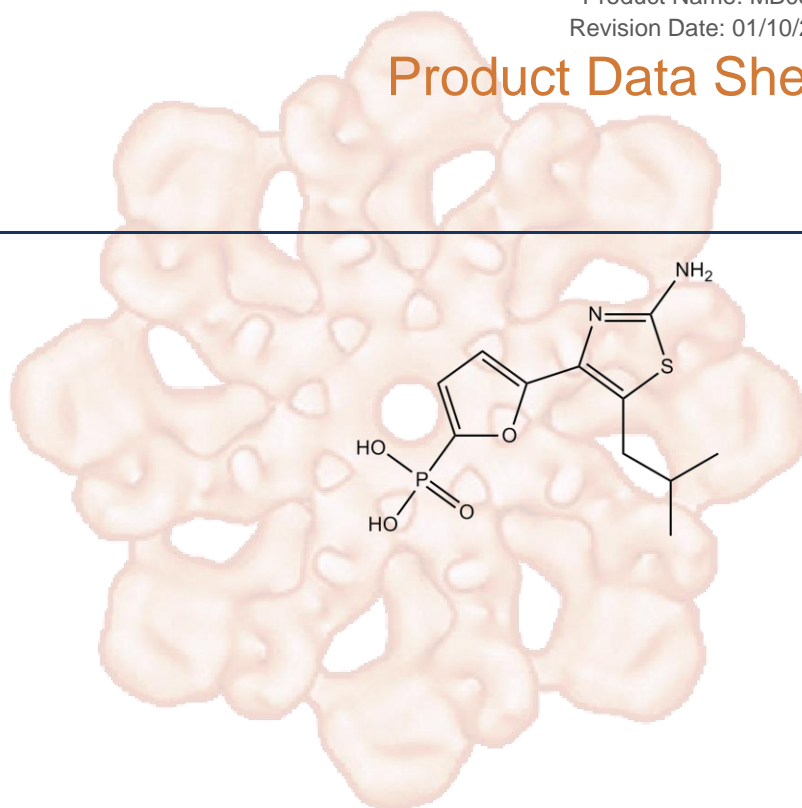


Product Data Sheet

MB05032

Cat. No.:	A3586
CAS No.:	261365-11-1
Formula:	C ₁₁ H ₁₅ N ₂ O ₄ PS
M.Wt:	302.29
Synonyms:	MB-05032;MB05032
Target:	Others
Pathway:	FBPase
Storage:	Store at -20°C



Solvent & Solubility

Soluble in DMSO

In Vitro

Preparing Stock Solutions	Solvent Concentration	Mass	1mg	5mg	10mg
	1 mM		3.3081 mL	16.5404 mL	33.0808 mL
	5 mM		0.6616 mL	3.3081 mL	6.6162 mL
	10 mM		0.3308 mL	1.6540 mL	3.3081 mL

Please refer to the solubility information to select the appropriate solvent.

Biological Activity

Shortsummary

GNG inhibitor, special and efficacious

IC₅₀ & Target

In Vitro

Cell Viability Assay

Cell Line:	rat and human hepatocytes
Preparation method:	This compound is soluble in DMSO. General tips for obtaining a higher concentration: Please warm the tube at 37°C for 10 minutes and/or shake it in the ultrasonic bath for a while. Stock solution can be stored below -20°C for several months.
Reacting conditions:	0.001-100 µM; 15-30 min
Applications:	In rat and human hepatocytes, MB05032 concentration-dependently inhibited

glucose production from all common GNG precursors. Relative to MB06322, MB05032 was a 5- and 226-fold less potent inhibitor of glucose synthesis by rat and human hepatocytes, respectively.

In Vivo

Animal experiment

Applications:

Product Citations

1. Guo B, Huang X, et al. "Antagonism of PPAR- γ signaling expands human hematopoietic stem and progenitor cells by enhancing glycolysis." *Nat Med.* 2018 Mar;24(3):360-367. PMID:29377004

See more customer validations on www.apexbt.com.

References

[1] Erion M D, van Poelje P D, Dang Q, et al. MB06322 (CS-917): A potent and selective inhibitor of fructose 1, 6-bisphosphatase for controlling gluconeogenesis in type 2 diabetes[J]. *Proceedings of the National Academy of Sciences*, 2005, 102(22): 7970-7975.

Caution

FOR RESEARCH PURPOSES ONLY.

NOT FOR HUMAN, VETERINARY DIAGNOSTIC OR THERAPEUTIC USE.

Specific storage and handling information for each product is indicated on the product datasheet. Most APExBIO products are stable under the recommended conditions. Products are sometimes shipped at a temperature that differs from the recommended storage temperature. Shortterm storage of many products are stable in the short-term at temperatures that differ from that required for long-term storage. We ensure that the product is shipped under conditions that will maintain the quality of the reagents. Upon receipt of the product, follow the storage recommendations on the product data sheet.

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