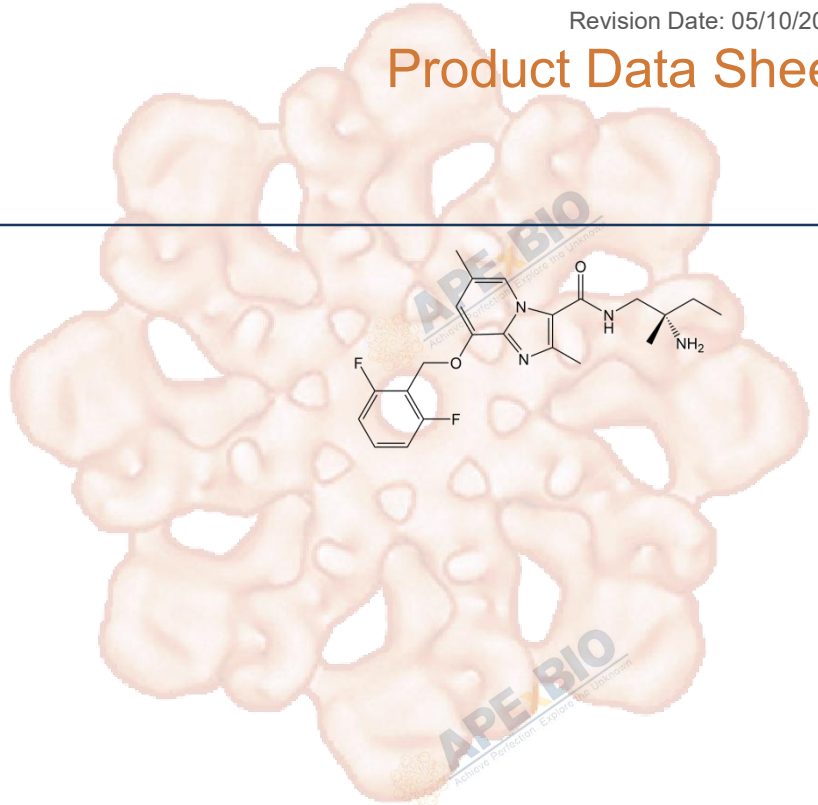


Product Data Sheet

BAY-747

Cat. No.:	BA5395
CAS No.:	1609342-18-8
Formula:	C22H26F2N4O2
M.Wt:	416.46
Synonyms:	BAY1165747
Target:	Neuroscience
Pathway:	Guanylate cyclase
Storage:	Store at -20° C



Solvent & Solubility

In Vitro

Preparing Stock Solutions	Mass			
	Solvent Concentration	1mg	5mg	10mg
	1 mM	2.4012 mL	12.0060 mL	24.0119 mL
	5 mM	0.4802 mL	2.4012 mL	4.8024 mL
	10 mM	0.2401 mL	1.2006 mL	2.4012 mL

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

Biological Activity

Shortsummary

 IC₅₀ & Target

In Vitro

Cell Viability Assay

Preparation method:

In Vivo

Animal experiment

Animal models: Rat object location task (OLT) model

Dosage form: 0.01 mg/kg, 0.03 mg/kg, 0.1 mg/kg, 0.3 mg/kg, 1 mg/kg, 3 mg/kg

Applications: Resulted significantly higher long-term memory performance at 0.03, 0.1, 0.3

and 1.0 mg/kg dose, 30 min before T1.

Attenuated L-NAME induced short-term memory impairments at 0.3 mg/kg and 1 mg/kg.

Did not enhance GluA1 trafficking at 1 mg/kg 24 h after treatment.

Preparation method: PO; 30 min before T1 in a 24 h interval OLT

Other notes: The technical data provided above is for reference only.

Product Citations

See more customer validations on www.apexbt.com.

References

1. Nelissen E, et al. The sGC stimulator BAY-747 and activator runcaciguat can enhance memory in vivo via differential hippocampal plasticity mechanisms. Sci Rep. 2022 Mar 4;12(1):3589.

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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