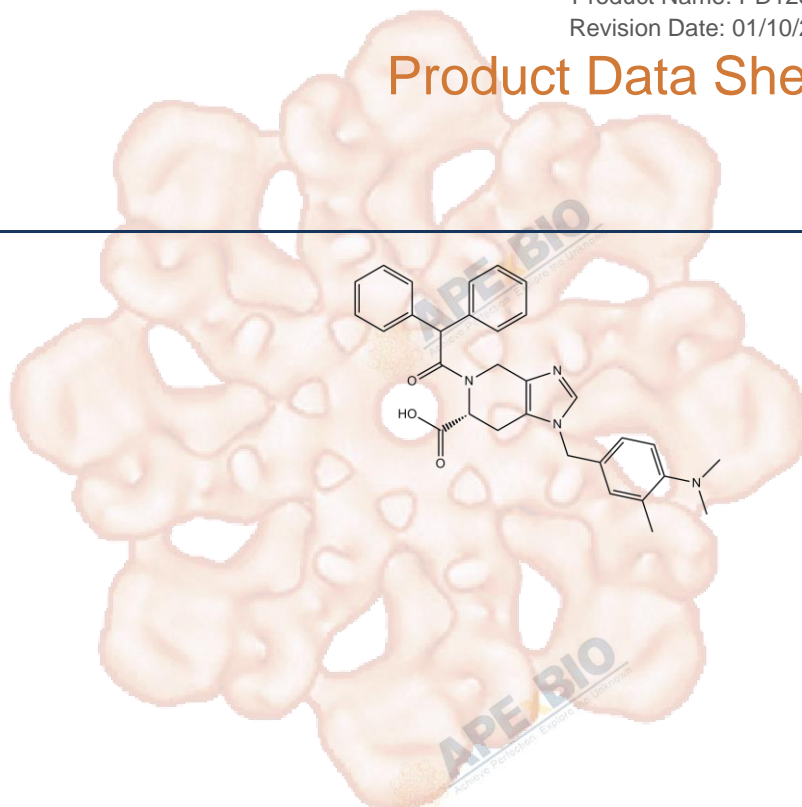


Product Data Sheet

PD123319

| | |
|------------------|---|
| Cat. No.: | B2206 |
| CAS No.: | 130663-39-7 |
| Formula: | C ₃₁ H ₃₂ N ₄ O ₃ |
| M.Wt: | 508.61 |
| Synonyms: | |
| Target: | GPCR/G protein |
| Pathway: | Angiotensin Receptor |
| Storage: | Store at -20°C |



Solvent & Solubility

≥22.4 mg/mL in DMSO; ≥104.2 mg/mL in H₂O; ≥140 mg/mL in EtOH

In Vitro

| Preparing Stock Solutions | Solvent | | Mass | | |
|---------------------------|---------------|--|-----------|-----------|------------|
| | Concentration | | 1mg | 5mg | 10mg |
| | 1 mM | | 1.9661 mL | 9.8307 mL | 19.6614 mL |
| | 5 mM | | 0.3932 mL | 1.9661 mL | 3.9323 mL |
| | 10 mM | | 0.1966 mL | 0.9831 mL | 1.9661 mL |

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

Biological Activity

Shortsummary

Angiotensin AT₂ receptor antagonist

IC₅₀ & Target

34 nM (AT₂ receptor)

In Vitro

Cell Viability Assay

| | |
|----------------------|--|
| Cell Line: | Human mesenchymal stem cells |
| Preparation method: | The solubility of this compound in DMSO is >10 mM. 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: | 10 μM for 15 days |

| | | |
|---------|--------------------------|--|
| | Applications: | PD123319 suppressed osteogenic differentiation of human mesenchymal stem cells through inhibition of extracellular signal-regulated kinase signaling. |
| In Vivo | Animal experiment | |
| | Animal models: | Rats model |
| | Dosage form: | 0.5 or 2 mg/kg/day; subcutaneous injection for 6, 10 days |
| | Applications: | PD123319 attenuated hyperoxia-induced lung and heart injury at a low dose in newborn rats. |
| | Other notes: | Please test the solubility of all compounds indoor, and the actual solubility may slightly differ with the theoretical value. This is caused by an experimental system error and it is normal. |

Product Citations

See more customer validations on www.apexbt.com.

References

1Matsushita, K., Wu, Y., Pratt, R. E. and Dzau, V. J. (2015) Blockade of angiotensin II type 2 receptor by PD123319 inhibits osteogenic differentiation of human mesenchymal stem cells via inhibition of extracellular signal-regulated kinase signaling. *J Am Soc Hypertens.* 9, 517-525

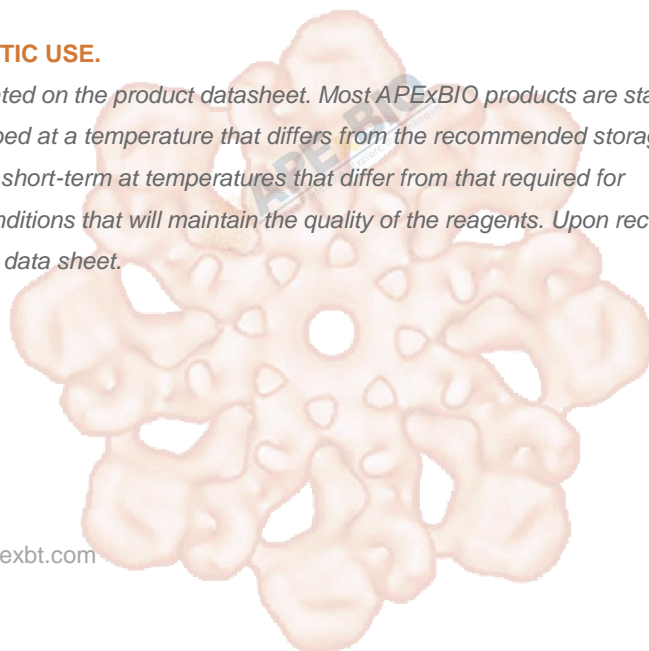
2Wagenaar, G. T., Sengers, R. M., Laghmani el, H., Chen, X., Lindeboom, M. P., Roks, A. J., Folkerts, G. and Walther, F. J. (2014) Angiotensin II type 2 receptor ligand PD123319 attenuates hyperoxia-induced lung and heart injury at a low dose in newborn rats. *Am J Physiol Lung Cell Mol Physiol.* 307, L261-272

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 APEX BIO products are stable under the recommended conditions. Products are sometimes shipped at a temperature that differs from the recommended storage temperature. Short-term 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.



APExBIO Technology

www.apexbt.com

7505 Fannin street, Suite 410, Houston, TX 77054.

Tel: +1-832-696-8203 | Fax: +1-832-641-3177 | Email: info@apexbt.com

