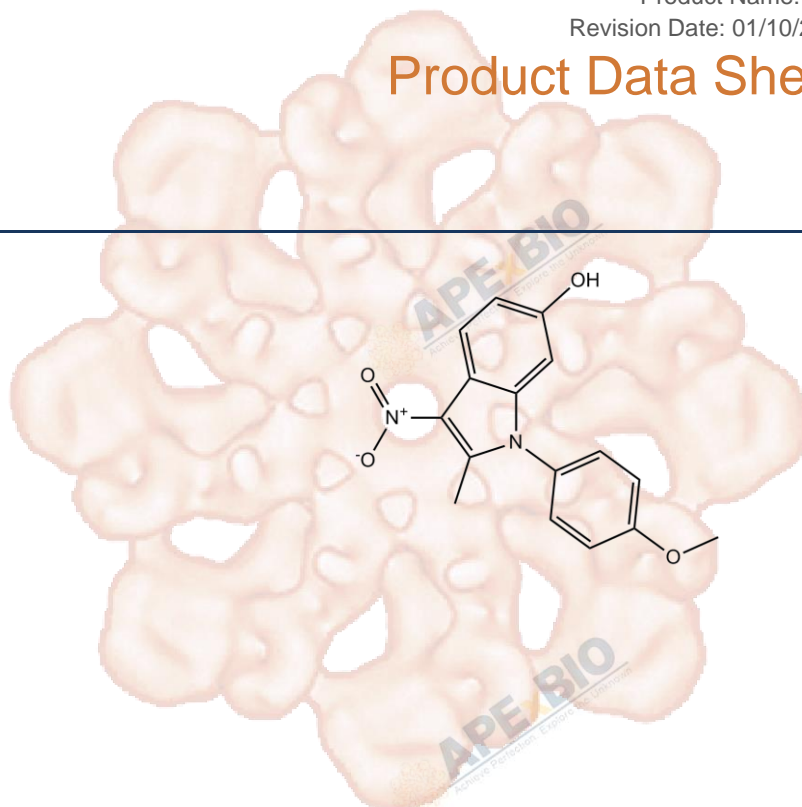


Product Data Sheet

ID-8

Cat. No.:	B1952
CAS No.:	147591-46-6
Formula:	C ₁₆ H ₁₄ N ₂ O ₄
M.Wt:	298.29
Synonyms:	
Target:	Others
Pathway:	Others
Storage:	Store at -20°C



Solvent & Solubility

insoluble in H₂O; insoluble in EtOH; ≥13.95 mg/mL in DMSO

In Vitro

Preparing Stock Solutions	Solvent	Mass		
		1mg	5mg	10mg
	Concentration			
	1 mM	3.3524 mL	16.7622 mL	33.5244 mL
	5 mM	0.6705 mL	3.3524 mL	6.7049 mL
	10 mM	0.3352 mL	1.6762 mL	3.3524 mL

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

Biological Activity

Shortsummary

DYRK inhibitor

IC₅₀ & Target

In Vitro

Cell Viability Assay

Cell Line:	D3ES embryonic stem cells (ESCs)
Preparation method:	The solubility of this compound in DMSO is >13.95mg/mL. 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; more than 1 month

	Applications:	In D3ES embryonic stem cells (ESCs) cultured in serum-free media, ID-8 enabled ESCs to proliferate in the undifferentiated state for at least 30 d. Cells maintained in the medium supplemented with ID-8 differentiated into various cell types, such as neurons, muscles, and liver. Removal of ID-8 from the long-term culture led to ESC differentiation. ID-8 reversibly maintained the long-term culture of ESCs by sustaining Nanog gene expression through Sox2-Oct3/4 activation.
In Vivo	Animal experiment	
	Applications:	

Product Citations

See more customer validations on www.apexbt.com.

References

[1]. Miyabayashi T, Yamamoto M, Sato A, et al. Indole derivatives sustain embryonic stem cell self-renewal in long-term culture. *Biosci Biotechnol Biochem*, 2008, 72(5): 1242-1248.

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.

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