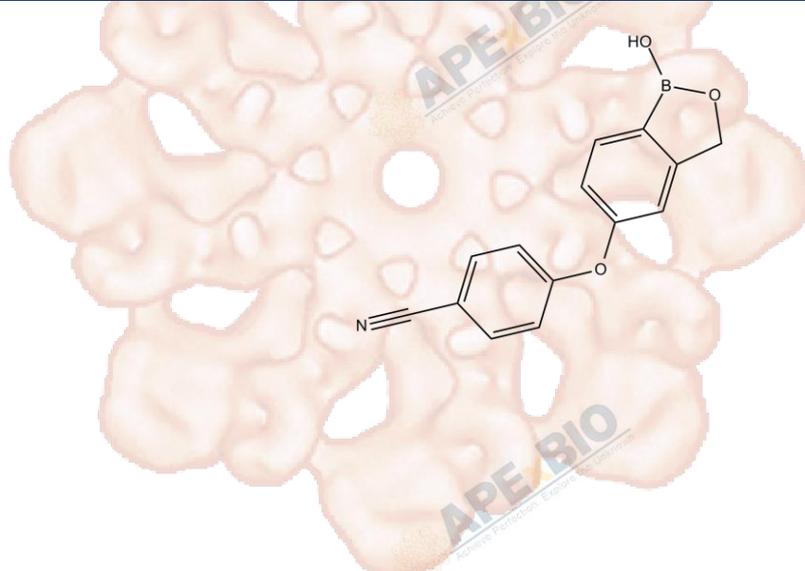


# Product Data Sheet

## AN-2728

<b>Cat. No.:</b>	A3178
<b>CAS No.:</b>	906673-24-3
<b>Formula:</b>	C <sub>14</sub> H <sub>10</sub> BNO <sub>3</sub>
<b>M.Wt:</b>	251.05
<b>Synonyms:</b>	AN2728;AN 2728
<b>Target:</b>	Metabolism
<b>Pathway:</b>	PDE
<b>Storage:</b>	Store at -20°C



## Solvent & Solubility

insoluble in H<sub>2</sub>O; ≥12.55 mg/mL in DMSO; ≥94.4 mg/mL in EtOH

In Vitro

Preparing Stock Solutions	Solvent		Mass		
	Concentration		1mg	5mg	10mg
	1 mM		3.9833 mL	19.9164 mL	39.8327 mL
	5 mM		0.7967 mL	3.9833 mL	7.9665 mL
	10 mM		0.3983 mL	1.9916 mL	3.9833 mL

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

## Biological Activity

Shortsummary

PDE4 inhibitor, anti-inflammatory compound

IC<sub>50</sub> & Target

In Vitro

### Cell Viability Assay

Cell Line:	Peripheral blood mononuclear cells (PBMCs)
Preparation method:	The solubility of this compound in DMSO is >12.6mg/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

	Applications:	AN-2728 showed a broad range of potent cytokine release inhibition, such as TNF- $\alpha$ , IL-23, IL-12 and other cytokines.
In Vivo	<b>Animal experiment</b>	
	Animal models:	Phorbol ester-induced mouse ear edema model
	Dosage form:	1 mg/ear $\times$ 2
	Applications:	AN-2728 demonstrated in vivo efficacy in phorbol ester-induced mouse ear edema model by topical application. AN-2728 showed significant inhibition against the ear edema.
	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](http://www.apexbt.com).

## References

[1]. Akama T, Baker S J, Zhang Y K, et al. Discovery and structure–activity study of a novel benzoxaborole anti-inflammatory agent (AN2728) for the potential topical treatment of psoriasis and atopic dermatitis[J]. Bioorganic & medicinal chemistry letters, 2009, 19(8): 2129-2132.

## 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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# APEx BIO Technology

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