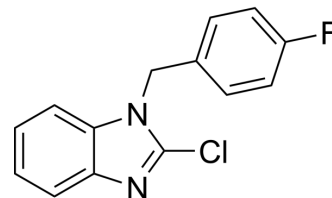


## 2-Chloro-1-(4-fluorobenzyl)-1H-benzo[d]imidazole

|                    |   |
|--------------------|---|
| Cat. No.:          | HY-W011786  |
| CAS No.:           | 84946-20-3  |
| Molecular Formula: | C <sub>14</sub> H <sub>10</sub> ClFN <sub>2</sub>   |
| Molecular Weight:  | 260.69  |
| Target:            | Others  |
| Pathway:           | Others  |
| Storage:           | Please store the product under the recommended conditions in the Certificate of Analysis. |



### BIOLOGICAL ACTIVITY

#### Description

2-Chloro-1-(4-fluorobenzyl)-1H-benzo[d]imidazole is an inhibitor of larval settlement in marine organisms, demonstrating low toxicity while effectively inhibiting the metamorphosis of species such as barnacles, bryozoans, and polychaetes. 2-Chloro-1-(4-fluorobenzyl)-1H-benzo[d]imidazole also exhibits activity as an aldose reductase (ALR2) inhibitor, indicating potential therapeutic applications in diabetes-related complications.

### REFERENCES

[1]. Reversible anti-settlement activity against Amphibalanus (=Balanus) amphitrite, Bugula neritina, and Hydroides elegans by a nontoxic pharmaceutical compound, mizolastine

**Caution: Product has not been fully validated for medical applications. For research use only.**

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