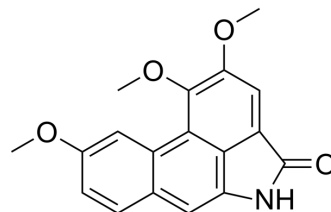


## Aristolactam BIII

|                    |   |
|--------------------|---|
| Cat. No.:          | HY-122989   |
| CAS No.:           | 53948-10-0  |
| Molecular Formula: | C <sub>18</sub> H <sub>15</sub> NO <sub>4</sub>   |
| Molecular Weight:  | 309.32  |
| Target:            | DYRK  |
| Pathway:           | Protein Tyrosine Kinase/RTK   |
| Storage:           | Please store the product under the recommended conditions in the Certificate of Analysis. |



### BIOLOGICAL ACTIVITY

#### Description

Aristolactam BIII is a potent DYRK1A inhibitor and inhibits the kinase activity of DYRK1A in vitro (IC<sub>50</sub> = 9.67 nM). Aristolactam BIII rescues the proliferative defects of DYRK1A transgenic (TG) mouse-derived fibroblasts and neurological and phenotypic defects of DS-like *Drosophila* models<sup>[1]</sup>.

### REFERENCES

[1]. Miri Choi, et al. Aristolactam BIII, a naturally derived DYRK1A inhibitor, rescues Down syndrome-related phenotypes. *Phytomedicine*. 2021 Nov;92:153695.

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

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