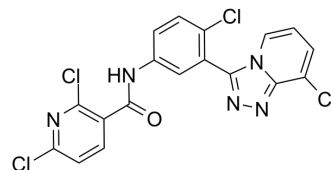


## TPB15

Cat. No.:	HY-147670
CAS No.:	2170347-69-8
Molecular Formula:	C <sub>18</sub> H <sub>9</sub> Cl <sub>4</sub> N <sub>5</sub> O
Molecular Weight:	453.11
Target:	Hedgehog; Smo; Gli; Apoptosis
Pathway:	Stem Cell/Wnt; Apoptosis
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



## BIOLOGICAL ACTIVITY

### Description

TPB15 is an orally active and potent Hh (Hedgehog) signaling inhibitor. TPB15 markedly induces cell cycle arrest and apoptosis in MDA-MB-468 cells. TPB15 blocks Smo (Smoothened) translocation into the cilia and reduced Smo protein and mRNA expression. TPB15 inhibits the expression of the downstream regulatory factor glioma-associated oncogene 1 (Gli1). TPB15 shows good anti-tumor activity with low toxicity<sup>[1]</sup>.

## REFERENCES

[1]. Tian N, et al. Discovery of [1,2,4]triazolo[4,3-a]pyridines as potent Smoothened inhibitors targeting the Hedgehog pathway with improved antitumor activity in vivo. *Bioorg Med Chem.* 2020 Aug 15;28(16):115584.

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

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