

Catalog	Unit
TBI2443-5MG	5 mg
TBI2443-25MG	25 mg

### Product Details

**Formal Name:** 4-[4-(1,3-Benzodioxol-5-yl)-5-(2-pyridinyl)-1H-imidazol-2-yl]benzamide

**Molecular Formula:** C<sub>22</sub>H<sub>16</sub>N<sub>4</sub>O<sub>3</sub>

**Formula Weight:** 384.40

**CAS Number:** 301836-41-9

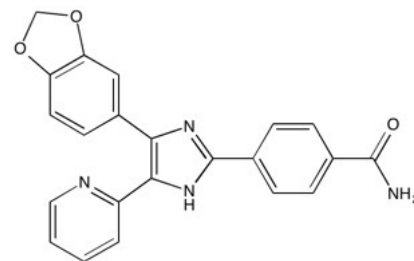
**Purity:** >98%

**Formulation:** powder

**Solubility:** Soluble in DMSO (up to 30 mg/ml), or in Ethanol (up to 3 mg/ml).

**Storage:** RT

**Stability:** ≥ 2 years.



### Applications

ALK4,5 and 7 inhibitor

### Functions

Potent and selective ALK4, ALK5 and ALK7 inhibitor (TGFβ superfamily Type I activin receptor-like kinase). (ALK5 IC<sub>50</sub> = 94 nM). Inhibits TGFβ-induced proliferation of human osteosarcoma cells. Enhances growth and integrity of embryonic stem cell-derived endothelial cells. A frequently used agent employed in numerous stem cell differentiation protocols. Cell permeable.

### Application Procedures

First dissolved in DMSO (up to 30 mg/ml), or in Ethanol (up to 3 mg/ml), then diluted to aqueous buffer. Solutions in DMSO or ethanol may be stored at -20° for up to 3 months.

**For research use only.**