

Catalog	Unit
TBI4764-5MG	5 mg
TBI4764-25MG	25 mg

### Product Details

**Formal Name:** 4-[6-[4-(1-Piperazinyl)phenyl]pyrazolo[1,5-a]pyrimidin-3-yl]-quinoline, dihydrochloride

**Alternate Names:** DM-3189

**Molecular Formula:** C<sub>25</sub>H<sub>22</sub>N<sub>6</sub>·2HCl

**Formula Weight:** 479.40

**CAS Number:** 1062368-62-0

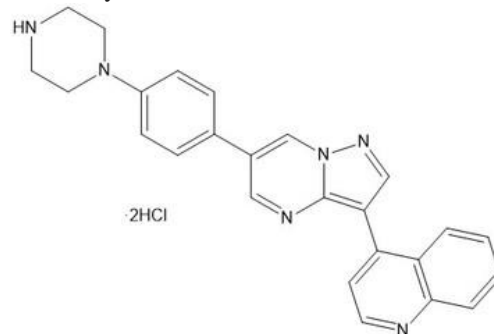
**Purity:** >98%

**Formulation:** powder

**Solubility:** Soluble in DMSO or in Water (up to 5 mg/ml)

**Storage:** -20°C

**Stability:** ≥ 1 year.



### Applications

ALK 2, 3 inhibitor

### Functions

LDN-193189 HCl is a potent and selective inhibitor of ALK2 (IC<sub>50</sub> = 5 nM) and ALK3 (IC<sub>50</sub> = 30 nM), thereby inhibiting SMAD1/5/8 phosphorylation. Only weak inhibition of ALK4, ALK5, and ALK7 is observed. Promotes neuronal differentiation of human pluripotent stem cells. LDN-193189 HCl has also been used to examine the role of osteogenesis in prostate tumor metastases in bone.

### Application Procedures

First dissolved in DMSO or in Water (up to 5 mg/ml), then diluted to aqueous buffer. Solutions in DMSO or distilled water may be stored at -20°C for up to 2 months.

**For research use only.**