

## XIB4035, GFRa1 agonist

Catalog	Unit
TBI1486-5MG	5 mg
TBI1486-25MG	25 mg

### Product Details

**Formal Name:** (E)-N4-(7-chloro-2-(2-chlorostyryl)quinolin-4-yl)-N1,N1-diethylpentane-1,4-diamine, 3(H<sub>3</sub>PO<sub>4</sub>)

**Molecular Formula:** C<sub>26</sub>H<sub>31</sub>Cl<sub>2</sub>N<sub>3</sub> · 3(H<sub>3</sub>PO<sub>4</sub>)

**Formula Weight:** 750.45

**CAS Number:** 10023-54-8

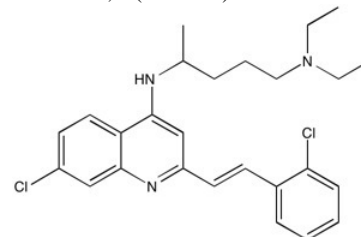
**Purity:** >98%

**Formulation:** powder

**Solubility:** Soluble in DMSO (up to 25 mg/ml with warming).

**Storage:** RT

**Stability:** ≥ 2 years.



### Applications

GFRa1 agonist

### Functions

A novel small molecule thought to be an agonist at the glial cell line-derived neurotrophic factor (GDNF) family receptor  $\alpha$ -1 GFR $\alpha$ -1. It inhibits radiolabeled GDNF binding in Neuro-2A cells in a concentration dependent manner IC<sub>50</sub>=10.4  $\mu$ M. Like GDNF, it induced Ret autophosphorylation and promoted neurite outgrowth in Neuro-2A cells. Recent studies indicate that it enhances GFR $\alpha$  family receptor signaling in conjunction with ligand stimulation. Effective treatment for small-fiber neuropathy in mouse models of the disease. GDNF agonists may be a new class of Parkinson's disease therapeutics.

### Application Procedures

First dissolved in DMSO (up to 25 mg/ml with warming), then diluted to aqueous buffer. Solutions in DMSO may be stored at -20° for up to 3 months.

**For research use only.**