

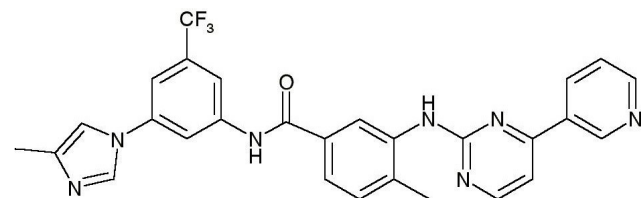
Cat No. 66-J40

Nilotinib

10mg

Nilotinib, also known as AMN107 or Tasigna, is a tyrosine kinase inhibitor. It is an analog of imatinib with similar multiple kinase targets, but without inhibition of the Src gene. This gene regulates tyrosine kinase proteins that in turn affect whether cells multiply or die. Tyrosine kinase inhibitors interfere with cell communication and growth. Nilotinib is a selective BCR-ABL inhibitor that fits into the ATP-binding site of the BCR-ABL protein. It has a higher affinity for the BCR-ABL protein than imatinib.

## TECHNICAL INFORMATION



**Other Names:** 4-methyl-N-[3-(4-methylimidazol-1-yl)-5-(trifluoromethyl)phenyl]-3-[(4-pyridin-3-yl)pyrimidin-2-yl]amino]benzamide

**Chemical Formula:** C<sub>28</sub>H<sub>22</sub>F<sub>3</sub>N<sub>7</sub>O

**CAS Number:** 641571-10-0

**PubChem Substance ID:** 644241

**Molecular Weight:** 529.52

**Purity:** >98%

**Appearance:** Crystalline solid

**Solubility:** DMSO

**IC<sub>50</sub> :** 12nM



For research purposes only

## STORAGE AND HANDLING

**Storage:** Store at 4°C and protected from light. Following reconstitution, store aliquots at -20°C.

**Stability:** Stock solutions stable at -20°C for up to 2 years.

**Shipping Conditions:** Shipped at room temperature.

## PRODUCT USE

Soluble in DMSO. Soluble at 20mg/ml.

## REFERENCES

1. Sabha, N., et al (2012). Investigation of the in vitro therapeutic efficacy of nilotinib in immortalized human NF2-null vestibular schwannoma cells. PLoS One. 7:39412.
2. Ohanian, M., et al (2012). Tyrosine kinase inhibitors in acute and chronic leukemias. Expert Opin Pharmacother. 13:927-38.