**Product Data Sheet**

### Chemical Properties

**Product Name:** Telatinib (BAY 57-9352)

**Cas No.:** 332012-40-5

**M.Wt:** 409.83

**Formula:** C20H16ClN5O3

**Synonyms:** BAY 579352; BAY 57 9352

**Chemical Name:** 4-[[4-(4-chloroanilino)furo[2,3-d]pyridazin-7-yl]oxymethyl]-N-methyl pyridine-2-carboxamide

**Canonical SMILES:** CNC(=O)C1=NC=CC(=C1)COC2=NN=C(C3=C2OC=C3)NC4=CC=C(C=C4)Cl

**Solubility:** ≥20.5mg/mL in DMSO

**Storage:** Store at -20°C

**General tips:** For obtaining a higher solubility, please warm the tube at 37°C and shake it in the ultrasonic bath for a while. Stock solution can be stored below -20°C for several months.

**Shopping Condition:** Evaluation sample solution: ship with blue ice

All other available size: ship with RT, or blue ice upon request

### Biological Activity

**Targets:** Tyrosine Kinase

**Pathways:** VEGFR

**Description:**

Telatinib (BAY 57-9352) is a selective inhibitor of VEGFR2, VEGFR3, c-Kit and PDGFRα with IC50 value of 6 nM, 4 nM, 1 nM and 15 nM, respectively [1].

Vascular endothelial growth factor receptor (VEGFR) is the receptor of VEGF and plays an important role in stimulating vasculogenesis and angiogenesis. Platelet-derived growth factor (PDGF) is a member of growth factors and involves in blood vessel formation. C-Kit is the receptor
of a growth factor. Many studies have shown that abnormal of VEGFR, c-Kit and PDGFR are correlated with a variety of tumors [1, 2, 3].

Telatinib is a potent VEGFR2/3, c-Kit and PDGFRα inhibitor. When tested with a panel of tumor cell lines (MDA-MB-231 breast carcinoma, Colo-205 colon carcinoma, DLD-1 colon carcinoma and H460 non-small cell lung carcinoma), Telatinib treatment exhibited inhibition on VEGFR-2 autophosphorylation and PDGF-β which involved in the angiogenic process [2]. Telatinib has been used in clinical trails to a variety of cancers treatment and has achieved promising results [2-4]. It is also reported that Telatinib restores tumor cells sensitivity to anticancer drugs and significantly reduced cellular viability by inhibiting ABCG2 expression [3].

Reference:

Caution

FOR RESEARCH PURPOSES ONLY.

NOT FOR HUMAN, VETERINARY DIAGNOSTIC OR THERAPEUTIC USE.

Specific storage and handling information for each product is indicated on the product datasheet. Most ApexBio products are stable under the recommended conditions. Products are sometimes shipped at a temperature that differs from the recommended storage temperature. Short-term storage of many products are stable in the short-term at temperatures that differ from that required for long-term storage. We ensure that the product is shipped under conditions that will maintain the quality of the reagents. Upon receipt of the product, follow the storage recommendations on the product data sheet.

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