

Sorafenib, Raf-1 inhibitor (and other kinases)

Catalog	Unit
TBI2174 - 10MG	10 mg
TBI2174 - 50MG	50 mg

Product Details

Formal Name: 4-(4-(3-(4-chloro-3-(trifluoromethyl)phenyl)ureido)phenoxy)-N-methylpicolinamide

Alternate Names: BAY 43-9006

Molecular Formula: C₂₁H₁₆ClF₃N₄O₃

Formula Weight: 464.83

CAS Number: 284461-73-0

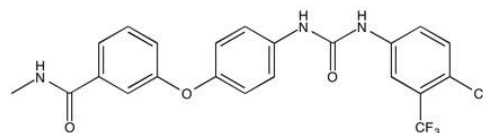
Purity: >98%

Formulation: Powder

Solubility: Soluble in DMSO (up to 200 mg/ml) or in Ethanol (up to 3 mg/ml).

Storage: -20°C

Stability: ≥ 2 years.



Applications

Raf-1 inhibitor (and other kinases)

Functions

Sorafenib (475207-59-1) was initially developed as a Raf kinase inhibitor, IC₅₀ = 6 nM, but has been shown to inhibit many receptor tyrosine kinases including BRAF (IC₅₀ = 22 nM); VEGFR-2 (IC₅₀ = 90 nM); VEGFR-3 (IC₅₀ = 20 nM); PDGFR-β (IC₅₀ = 57 nM); Flt3 (IC₅₀ = 58 nM); c-KIT (IC₅₀ = 68 nM); FGFR-1 (IC₅₀ = 580 nM). Paradoxically more potent in a cellular assay (IC₅₀ = 20 nM) compared to an isolated enzyme assay (IC₅₀ = 107 nM) for c-Fms. Inhibits activation of MAPK pathway and ERK phosphorylation. Induces caspase-independent apoptosis in melanoma cells. Sorafenib is a clinically useful anticancer agent.

Application Procedures

First dissolved in DMSO (up to 200 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°C for up to 1 month.

Relative Products

TBI1170	Mitomycin C
TBI1345	E64, Cysteine protease inhibitor
TBI1347	E64d, Cysteine protease inhibitor
TBI2064	Chromomycin A3
TBI2069	Cytochalasin B
TBI2794	5-EDU, DNA Click labeling probe
TBI2071	Cytochalasin D
TBI1286	Bestatin, Aminopeptidase inhibitor
TBI2140	Gemcitabine
TBI2058	Aphidicolin, DNA polymerase Inhibitor

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