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Produktinformation



Forschungsprodukte & Biochemikalien



Zellkultur & Verbrauchsmaterial



Diagnostik & molekulare Diagnostik



Laborgeräte & Service

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See the following pages for more information!



Lieferung & Zahlungsart

siehe unsere [Liefer- und Versandbedingungen](#)

Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

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TG 100713

Chemical Properties

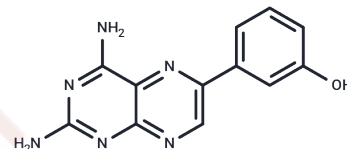
CAS No. : 925705-73-3

Formula: C₁₂H₁₀N₆O

Molecular Weight: 254.25

Appearance: no data available

Storage: Powder: -20°C for 3 years | In solvent: -80°C for 1 year



Biological Description

Description	TG 100713 is a pan-PI3K inhibitor against PI3K γ , PI3K δ , PI3K α and PI3K β with IC ₅₀ of 50 nM, 24 nM, 165 nM and 215 nM, respectively.
Targets(IC ₅₀)	PI3K
In vitro	TG 100713 also strongly inhibits EC proliferation. [1]
Kinase Assay	Kinase Assays: PI3K reactions are constructed by using recombinant human kinases, 3 μ M ATP, phosphatidylinositol substrate, and cofactors, and reaction progression measured by using a luminescent-based detection system to quantify ATP consumption. Protein kinase assays are performed by using commercial screening services.
Cell Research	Human umbilical vein EC plated in 96-well cluster plates (5,000 cells/well) are cultured in assay medium (containing 0.5% serum and 50 ng/ml VEGF) in the presence or absence of test compounds (10 μ M), and cell numbers are quantified by XTT assay.(Only for Reference)

Solubility Information

Solubility	DMSO: 2.5 mg/mL (10 mM), (< 1 mg/ml refers to the product slightly soluble or insoluble)
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Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	3.9331 mL	19.6657 mL	39.3314 mL
5 mM	0.7866 mL	3.9331 mL	7.8663 mL
10 mM	0.3933 mL	1.9666 mL	3.9331 mL
50 mM	0.0787 mL	0.3933 mL	0.7866 mL

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. Please use it as soon as possible.

Reference

Doukas J et al. Proc Natl Acad Sci U S A, 2006, 103(52), 19866-19871.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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