Data Sheet (Cat.No.T13238)

TargetMol
A DRUG SCREENING EXPERT

Tyrphostin AG1433

Chemical Properties

CAS No.:	168835-90-3
Formula:	C16H14N2O2
Molecular Weight:	266.29
Appearance:	N/A
Storage:	0-4℃ for short term (days to weeks), or -20℃ for long term (months).

Biological Description

Description	Tyrphostin AG1433 (SU1433) is an inhibitor of tyrosine kinases, and also a selective PDGFRβ and VEGFR-2 (Flk-1/KDR) inhibitor (IC50s: 5.0 μM and 9.3 μM, respectively).
Targets(IC_{50})	Flk-1: 9.3 μM PDGFRβ: 5 μM
In vitro	In glioblastoma cells, Tyrphostin AG1433 (0.1-100 μM; 72 hours; GB8B cells) treatment induces moderate cytotoxicity [1].
In vivo	Tyrphostin AG1433 is prepared in methylcellulose pellets and applies to the CAMs of 4-6-day-old chicken embryos, and prevents the formation of new vessels under the pellets [2].

Solubility Information

Solubility	DMSO: 62.5 mg/mL (234.71 mM) (< 1 mg/ml refers to the product slightly soluble or insoluble)

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	3.755 mL	18.777 mL	37.553 mL
5 mM	0.751 mL	3.755 mL	7.511 mL
10 mM	0.376 mL	1.878 mL	3.755 mL
50 mM	0.075 mL	0.376 mL	0.751 mL

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. The storage conditions and period of the stock solution: - 80 ℃ for 6 months; - 20 ℃ for 1 month. Please use it as soon as possible.

Reference

1. Serban F, et al. Silencing of epidermal growth factor, latrophilin and seven transmembrane domain-containing protein 1 (ELTD1) via siRNA-induced cell death in glioblastoma. J Immunoassay Immunochem. 2017;38(1):21-33.
2. Strawn LM, et al. Flk-1 as a target for tumor growth inhibition. Cancer Res. 1996 Aug 1;56(15):3540-5.
3. Kim TS, et al. The ZFHX3 (ATBF1) transcription factor induces PDGFRB, which activates ATM in the cytoplasm to protect cerebellar neurons from oxidative stress. Dis Model Mech. 2010 Nov-Dec;3(11-12):752-62.
4. Kroll J, et al. The vascular endothelial growth factor receptor KDR activates multiple signal transduction pathways in porcine aortic endothelial cells. J Biol Chem. 1997 Dec 19;272(51):32521-7.

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