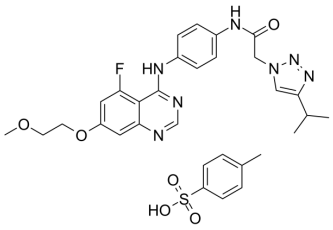
AZD3229 Tosylate

Cat. No.:	HY-112802A
CAS No.:	2248003-71-4
Molecular Formula:	$C_{31}H_{34}FN_7O_6S$
Molecular Weight:	651.71
Target:	c-Kit
Pathway:	Protein Tyrosine Kinase/RTK
Storage:	4°C, sealed storage, away from moisture * In solvent : -80°C, 6 months; -20°C, 1 month (sealed storage, away from moisture)



SOLVENT & SOLUBILITY

In Vitro

DMSO : ≥ 100 mg/mL (153.44 mM)

* "≥" means soluble, but saturation unknown.

Preparing Stock Solutions

Solvent / Mass / Concentration	1 mg	5 mg	10 mg
1 mM	1.5344 mL	7.6721 mL	15.3442 mL
5 mM	0.3069 mL	1.5344 mL	3.0688 mL
10 mM	0.1534 mL	0.7672 mL	1.5344 mL

Please refer to the solubility information to select the appropriate solvent.

BIOLOGICAL ACTIVITY

Description

AZD3229 Tosylate is a potent pan-KIT mutant inhibitor for the treatment of gastrointestinal stromal tumors.

IC_{50} & Target

KIT[1].

In Vitro

AZD3229 is a potent, pan-KIT mutant inhibitor with potent single digit nM growth inhibition against a diverse panel of mutant KIT driven Ba/F3 cell lines (GI_{50}=1-50 nM). AZD3229 demonstrates potent single digit nM growth inhibition across a broad cell panel, with good margin to KDR-driven effects. Selectivity over KDR can be rationalised predominantly by the interaction of water molecules with the protein and ligand in the active site and its kinome selectivity is similar to the best of the approved GIST agents[1].

MCE has not independently confirmed the accuracy of these methods. They are for reference only.

REFERENCES

[1]. Kettle JG, et al. Discovery of N-(4-{[5-Fluoro-7-(2-methoxyethoxy)quinazolin-4-yl]amino}phenyl)-2-[4-(propan-2-yl)-1 H-1,2,3-triazol-1-yl]acetamide (AZD3229), a Potent

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