

## Gusacitinib

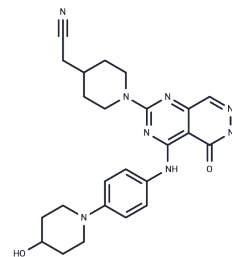
## Chemical Properties

CAS No. : 1425381-60-7

Formula: C<sub>24</sub>H<sub>28</sub>N<sub>8</sub>O<sub>2</sub>

Molecular Weight: 460.53

Appearance: no data available

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

## Biological Description

Description	Gusacitinib (ASN-002) (ASN-002) is spleen tyrosine kinase (SYK) and janus kinase (JAK) inhibitor (IC <sub>50</sub> : 5-46 nM).
Targets(IC <sub>50</sub> )	Syk,JAK
In vitro	Gusacitinib (ASN-002) shows anti-proliferative activity in a broad panel of human cancer cell lines including DHL6, DHL4, OCI-LY10, H929, Pfeiffer, HT-1376, and Lovo, suggesting activity in both solid and hematological tumor types[1]. In mechanistic cell-based studies involving IgE and cytokine stimulations, Gusacitinib (ASN-002) strongly suppresses the SYK and JAK family kinase signaling pathways measured as pLAT and pSTAT levels, respectively.
In vivo	Gusacitinib (ASN-002) shows a favorable safety profile in rat and dog toxicology studies [1]. Gusacitinib (ASN-002) has good oral bioavailability, metabolic stability, is not a Pgp substrate, and shows little to no inhibition of CYP450 isozymes. In a multiple myeloma (H929) xenograft model, Gusacitinib (ASN-002) exhibits significant efficacy in inhibiting tumor growth (>95%) and it also significantly delays the onset of hind limb paralysis in the human erythroleukemia (HEL) mouse model.

## Solubility Information

Solubility	DMSO: 95 mg/mL (206.28 mM),Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
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## A DRUG SCREENING EXPERT

### Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.1714 mL	10.8571 mL	21.7141 mL
5 mM	0.4343 mL	2.1714 mL	4.3428 mL
10 mM	0.2171 mL	1.0857 mL	2.1714 mL
50 mM	0.0434 mL	0.2171 mL	0.4343 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

Sanjeeva Reddy, et al. Abstract 792: ASN002: A novel dual SYK/JAK inhibitor with strong antitumor activity. AACR 106th Annual Meeting 2015; April 18-22, 2015; Philadelphia, PA.

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