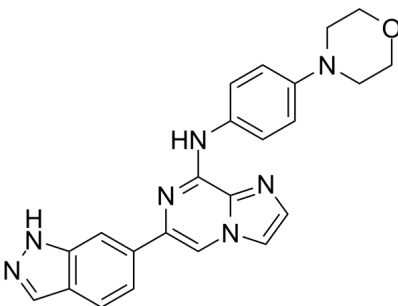


Certificate of Analysis

Catalog Number	BP10269
Product Name	Entospletinib

Physical and Chemical Properties

Synonyms	GS-9973
CAS No.	1229208-44-9
Chemical Formula	C ₂₃ H ₂₁ N ₇ O
Molecular Weight	411.469
Solubility	DMSO: 43 mg/mL
Storage	Powder: -20°C for 2 years In solvent: -80°C for 1 year
Chemical Structure OR Tested Image	 <p>The chemical structure of Entospletinib is shown. It features a central pyrimidine ring substituted with a 1H-indol-3-yl group at the 2-position, a 4-(4-morpholinyl)phenyl group at the 4-position, and a 1H-imidazol-2-yl group at the 6-position.</p>

Product Information

Description	Entospletinib [IC ₅₀ = 7.7 nM] is a specific Syk inhibitor, which is orally bioavailable.
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Targets&IC50	Syk: IC50: 7.7 nM
In vitro	In MV-4-11 cells, the functional effect of the compound on the cellular Flt3 activity was determined by inhibition of cell proliferation. Cells were diluted in 96 well flat bottom tissue culture plates in RPMI medium containing 10% FBS and compound dilutions were added and incubated at 37°C for 72 hours. Aramazol (10%) was added to the cells and the cells were incubated for another 12-18 hours at 37°C. Finally, the inhibition of the relative cell number was measured at 570/600 nm in the spectrophotometer.
In vivo	In the rat collagen-induced arthritis (CIA) model, Entospletinib (10 mg/kg), which is dissolved in hydrogenated castor oil, ethanol or physiological saline, is taken by oral.

Analytical Data

HPLC	Shows Min >99% purity
H-NMR	Consistent with structure
Stability and Solubility Advice	Information on product stability, especially in solution, has rarely been reported and in most cases we can only provide a general guideline. We recommend that once the stock solution has been prepared, it be stored in equal quantities in sealed vials and used within 1 month. Avoid repeated freezing and thawing cycles. Storage conditions for some special products should be referred to their storage details.

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