Product Data Sheet

GS-493

 $\begin{array}{lll} \textbf{Cat. No.:} & & \text{HY-120159} \\ \\ \textbf{CAS No.:} & & 1710337\text{-}31\text{-}7 \\ \\ \textbf{Molecular Formula:} & & \textbf{C}_{21}\textbf{H}_{14}\textbf{N}_{6}\textbf{O}_{8}\textbf{S} \\ \end{array}$

Molecular Weight: 510.44

Target: Phosphatase; SHP2

Pathway: Metabolic Enzyme/Protease; Protein Tyrosine Kinase/RTK

Storage: Please store the product under the recommended conditions in the Certificate of

Analysis.

BIOLOGICAL ACTIVITY

Description	GS-493 is a selective protein tyrosine phosphatase SHP2 (PTPN11) inhibitor with an IC ₅₀ of 71 nM. GS-493 is 29- and 45-fold more active toward SHP2 than related SHP1 and PTP1B. GS-493 blocks cellular motility and growth of cancer cells. Antitumor activity ^[1] .				
IC ₅₀ & Target	IC50: 71 nM (SHP2); 2.08 μ M (SHP1); 3.17 μ M (PTP1B) $^{[1]}$				
In Vitro	GS-493 (0.0625-10 μ M) blocks hepatocyte growth factor (HGF)-stimulated epithelial-mesenchymal transition of human pancreatic adenocarcinoma (HPAF) cells ^[1] . GS-493 (40 μ M, a couple of days) blocks growth of the human NSCL cancer cell line LXFA 526L in soft agar and decreases the number of tumor cell colonies to 32% ^[1] . MCE has not independently confirmed the accuracy of these methods. They are for reference only.				
In Vivo		nily for 27 days) inhibits tumor growth significantly in a murine xenograft model ^[1] . tly confirmed the accuracy of these methods. They are for reference only. Nude mouse xenograft model (strain NMRI nu/nu mice) 46 mg/kg (45.93 mg in 3 mL DMSO per kg) i.p.; daily for 27 days Inhibited tumor growth significantly.			

CUSTOMER VALIDATION

• Int Immunopharmacol. 2022 Jul 16;110:109063.

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REFERENCES

1]. Grosskopf S, et al. Selective 2015;10(5):815-826.	inhibitors of the protein tyro	sine phosphatase SHP2 block ce	llular motility and growth of cancer cells in vitro	and in vivo. ChemMedChem.
	Caution: Product has no	t been fully validated for me	dical applications. For research use only.	
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