Product Data Sheet

C188

Cat. No.:HY-112338CAS No.:823828-18-8Molecular Formula: $C_{19}H_{15}NO_7S_2$ Molecular Weight:433.45Target:STAT

Pathway: JAK/STAT Signaling; Stem Cell/Wnt

Storage: Powder

-20°C 3 years 4°C 2 years

In solvent -80°C 6 months

-20°C 1 month

SOLVENT & SOLUBILITY

In Vitro

DMSO: 100 mg/mL (230.71 mM; Need ultrasonic and warming)

Preparing Stock Solutions	Solvent Mass Concentration	1 mg	5 mg	10 mg
	1 mM	2.3071 mL	11.5354 mL	23.0707 mL
	5 mM	0.4614 mL	2.3071 mL	4.6141 mL
	10 mM	0.2307 mL	1.1535 mL	2.3071 mL

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

BIOLOGICAL ACTIVITY

Description

C188 is a STAT3 inhibitor that inhibits IL-6-stimulated STAT3 phosphorylation and nuclear translocation in HepG2 cells by targeting STAT3 SH2 domain peptide-binding pocket. C188, in particular, was highly active in inducing apoptosis of the breast cancer cell line MB-MDA-468 in vitro (EC $_{50}$ = 0.7 μ M).

REFERENCES

[1]. Xu X, Kasembeli MM, Jiang X, Tweardy BJ, Tweardy DJ. Chemical probes that competitively and selectively inhibit Stat3 activation. PLoS One. 2009;4(3):e4783.

 $\label{lem:caution:Product} \textbf{Caution: Product has not been fully validated for medical applications. For research use only.}$

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