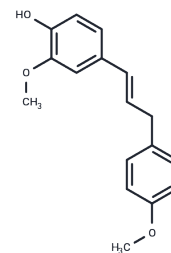


MMPP

Chemical Properties

CAS No. :	1895957-18-2
Formula:	C17H18O3
Molecular Weight:	270.32
Storage:	Powder: -20°C for 3 years In solvent: -80°C for 1 year Actual storage temperature shall be subject to the COA.



Biological Description

Description	MMPP is a novel VEGFR2 inhibitor with anti-inflammatory and potential anticancer activity, inhibits STAT3, inhibits angiogenesis via VEGFR2/AKT/ERK/NF-kappaB pathway, and can be used to alleviate myocardial injury.
Targets(IC50)	STAT,VEGFR

Solubility Information

Solubility	Ethanol: 27.03 mg/mL (99.99 mM),Sonication is recommended. DMSO: 50 mg/mL (184.97 mM),Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
In vivo Formulation	5% DMSO+40% PEG300+5% Tween 80+50% Saline: 2.5 mg/mL (9.25 mM),Solution. <i>Please add the solvents sequentially, clarifying the solution as much as possible before adding the next one. Dissolve by heating and/or sonication if necessary. Working solution is recommended to be prepared and used immediately. The formulation provided above is for reference purposes only. In vivo formulations may vary and should be modified based on specific experimental conditions.</i>

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	3.6993 mL	18.4966 mL	36.9932 mL
5 mM	0.7399 mL	3.6993 mL	7.3986 mL
10 mM	0.3699 mL	1.8497 mL	3.6993 mL
50 mM	0.074 mL	0.3699 mL	0.7399 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.

Note: The dilution table applies only to solid products. For liquid products, please calculate the stock solution based on the stated concentration and/or density.

Reference

Son DJ, et al. Novel synthetic (E)-2-methoxy-4-(3-(4-methoxyphenyl)prop-1-en-1-yl)phenol inhibits arthritis by targeting signal transducer and activator of transcription 3. *Sci Rep.* 2016 Nov 15;6:36852.

Kim B, et al. (E)-2-methoxy-4-(3-(4-methoxyphenyl)prop-1-en-1-yl)phenol alleviates inflammatory responses in LPS-induced mice liver sepsis through inhibition of STAT3 phosphorylation. *Int Immunopharmacol.* 2023 Dec;125 (Pt A):111124.

Zheng J, Son DJ, Lee HL, Lee HP, Kim TH, Joo JH, Ham YW, Kim WJ, Jung JK, Han SB, Hong JT. (E)-2-methoxy-4-(3-(4-methoxyphenyl)prop-1-en-1-yl)phenol suppresses ovarian cancer cell growth via inhibition of ERK and STAT3. *Mol Carcinog.* 2017 Mar 9. doi: 10.1002/mc.22648. [Epub ahead of print] PubMed PMID: 28277616.

Son DJ, Kim DH, Nah SS, Park MH, Lee HP, Han SB, Venkatareddy U, Gann B, Rodriguez K, Burt SR, Ham YW, Jung YY, Hong JT. Novel synthetic (E)-2-methoxy-4-(3-(4-methoxyphenyl)prop-1-en-1-yl)phenol inhibits arthritis by targeting signal transducer and activator of transcription 3. *Sci Rep.* 2016 Nov 15;6:36852. doi: 10.1038/srep36852. PubMed PMID: 27845373; PubMed Central PMCID: PMC5109275.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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