

gp91 ds-tat

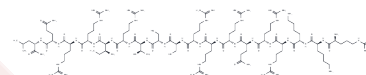
Chemical Properties

CAS No. : 329902-61-6

Formula: C₉₈H₁₉₀N₅O₂₂S

Molecular Weight: 2452.94

Storage: Keep away from moisture, Store at low temperature,
Keep away from direct sunlight
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	gp91 ds-tat is a NADPH oxidase (NOX2) inhibitor that reduces NOX2 expression.
Targets(IC50)	NADPH, NADPH-oxidase
In vitro	Using confocal microscopy, Hcy induced formation of NLRP3 inflammasomes as indicated by increased colocalization of inflammasome markers, NLRP3 with ASC, and NLRP3 with caspase-1. Pretreatment with the ROS scavenger, catalase (50 U/ml), or gp91 ds-tat peptide blocked this increase. [1]

Solubility Information

Solubility	DMSO: 80 mg/mL (32.61 mM), Sonication is recommended. H ₂ O: < 0.1 mg/mL (insoluble) (< 1 mg/ml refers to the product slightly soluble or insoluble)
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Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	0.4077 mL	2.0384 mL	4.0767 mL
5 mM	0.0815 mL	0.4077 mL	0.8153 mL
10 mM	0.0408 mL	0.2038 mL	0.4077 mL
50 mM	0.0082 mL	0.0408 mL	0.0815 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

Li G, et al. Regulation of TRPML1 channel activity and inflammatory exosome release by endogenously produced reactive oxygen species in mouse podocytes. Redox Biol. 2021 Jul;43:102013.

Chu YC, et al. Functional Peptide-Loaded Gelatin Nanoparticles as Eyedrops for Cornea Neovascularization Treatment. Int J Nanomedicine. 2023 Mar 23;18:1413-1431.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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