

Poloxamer 188

Chemical Properties

CAS No. : 691397-13-4

Formula:

Molecular Weight:

Poloxamer 188

Storage: Store at low temperature, Keep away from moisture
 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	Poloxamer 188 is a nonionic triblock copolymer surfactant and bioactive excipient used as a medical excipient to exacerbate cerebral amyloidosis, presynaptic dystrophy, and pathogenic microglial cell activation in 5XFAD mice.
Targets(IC50)	Others
In vitro	Poloxamer 188 exhibited a protective effect on mouse brain microvascular endothelial cells (MBEC) after treatment in the concentration range of 10-1000 μ M for 5 hours. In addition, Docetaxel-loaded PLGA/Poloxamer 188 nanoparticles significantly increased drug uptake levels and cytotoxicity in Docetaxel-resistant MCF-7 TAX30 human breast cancer cells compared to Docetaxel-loaded PLGA nanoparticles. [1][2]
In vivo	Poloxamer 188 administered intravenously at a dose of 150 mg/kg over 240 minutes significantly reduced muscle edema and lipid peroxidation induced by ischemia-reperfusion. [3]

Reference

- Lotze FP, et al. Poloxamer 188 Exerts Direct Protective Effects on Mouse Brain Microvascular Endothelial Cells in an In Vitro Traumatic Brain Injury Model. *Biomedicines*. 2021 Aug 19;9(8):1043.
- Yan F, et al. The effect of poloxamer 188 on nanoparticle morphology, size, cancer cell uptake, and cytotoxicity. *Nanomedicine*. 2010 Feb;6(1):170-8.
- Walters TJ, et al. Poloxamer-188 reduces muscular edema after tourniquet-induced ischemia-reperfusion injury in rats. *J Trauma*. 2011 May;70(5):1192-7.
- Li G, et al. Enhanced oral bioavailability of magnolol via mixed micelles and nanosuspensions based on Soluplus®-Poloxamer 188. *Drug Deliv*. 2020 Dec;27(1):1010-1017.

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