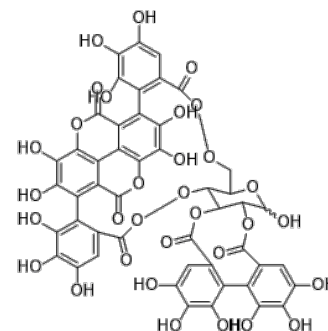


Product Name : Punicalagin
Cat. No. : PC-25600
CAS No. : 65995-63-3
Molecular Formula : C₄₈H₂₈O₃₀
Molecular Weight : 1084.72
Target : Protease-activated Receptor (PAR)
Solubility : 10 mM in DMSO



Biological Activity

Punicalagin is a major polyphenol enriched in pomegranat, a reversible and non-competitive 3CLpro inhibitor and inhibits SARS-CoV-2 replication in vitro, has antioxidant, anti-inflammatory and anticancer effects, also is a potent protease-activated receptor-2 (PAR2) inhibitor with IC₅₀ of 1.5 uM.

Punicalagin also inhibits hepatitis B virus (HBV).

Punicalagin significantly reduced the PAR2-mediated activation of ERK1/2 and NF-κB signaling pathway.

Punicalagin significantly decreased PAR2-induced increases in ICAM-1 and VCAM-1 as well as in IL-8, IFN-γ, and TNF-α expression

Punicalagin significantly alleviated kidney injury and splenomegaly and reduced proteinuria and renal ICAM-1 and VCAM-1 expression in NZB/W F1 mice.

References

Seo Y, et al. Int J Mol Sci. 2020 Jul 14;21(14):4975.

Seeram NP, et al. J Nutr Biochem. 2005 Jun;16(6):360-7.

Liu C, et al. Antiviral Res. 2016 Oct;134:97-107.

RuikunDu, et al. Antivir Res. 2021, 105075.

Caution: Product has not been fully validated for medical applications. Lab Use Only!

E-mail: tech@probechem.com