Thrombospondin-1 (1016-1023) (human, bovine, mouse)

Cat. No.: HY-P0144

CAS No.: 149234-04-8

Molecular Formula: $C_{56}H_{81}N_{13}O_{10}S$

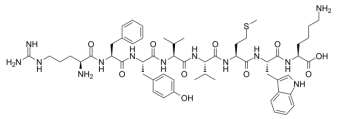
Molecular Weight: 1128.39

Sequence Shortening: RFYVVMWK

Target: Apoptosis

Pathway: Apoptosis

Storage: Sealed storage, away from moisture and light
Powder -80°C 2 years
-20°C 1 year
* In solvent : -80°C, 6 months; -20°C, 1 month (sealed storage, away from moisture and light)



SOLVENT & SOLUBILITY

In Vitro

H_2O : 14.29 mg/mL (12.66 mM; Need ultrasonic)

Preparing Stock Solutions	Mass / Solvent / Concentration	1 mg	5 mg	10 mg
	1 mM	0.8862 mL	4.4311 mL	8.8622 mL
	5 mM	0.1772 mL	0.8862 mL	1.7724 mL
	10 mM	0.0886 mL	0.4431 mL	0.8862 mL

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

BIOLOGICAL ACTIVITY

Description

Thrombospondin-1 (1016-1023) (human, bovine, mouse), is the C-terminal end of the native sequence of Thrombospondin-1 (TSP-1), is a CD47 agonist peptide[1].

In Vitro

Thrombospondin-1 (1016-1023) (human, bovine, mouse) (4N1K; 100 μg/mL; for 60 min) treatment has induced both phosphatidylserine exposure and loss of cell membrane integrity in monocyte-derived immature dendritic cells (DCs). With peptide concentrations of 25-200 μg/mL, the number of annexin V+ cells increased with peptide concentration. Thrombospondin-1 (1016-1023) (human, bovine, mouse) reduces mitochondrial membrane potential and fragmented DNA in DCs[2].

MCE has not independently confirmed the accuracy of these methods. They are for reference only.

REFERENCES

[1]. Chih-Jian Lih, et al. Txr1: a transcriptional regulator of thrombospondin-1 that modulates cellular sensitivity to taxanes. Genes Dev. 2006 Aug 1;20(15):2082-95.

[2]. U Johansson, et al. CD47 ligation induces a rapid caspase-independent apoptosis-like cell death in human monocytes and dendritic cells. Scand J Immunol. 2004 Jan;59(1):40-9.

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