

Data Sheet

Product Name:	NFAT Inhibitor
Cat. No.:	CS-7593
CAS No.:	249537-73-3
Molecular Formula:	C75H120N20O22S
Molecular Weight:	1685.94
Target:	Others
Pathway:	Others
Solubility:	H2O : 100 mg/mL (59.31 mM; Need ultrasonic)

MAGPHPVIVITGPHEE

BIOLOGICAL ACTIVITY:

NFAT Inhibitor (VIVIT peptide) is a cell-permeable peptide inhibitor of **nuclear factor of activated Tcells (NFAT)** that selectively inhibits calcineurin-mediated dephosphorylation of **NFAT**^{[1][2]}. IC50 & Target: Nuclear factor of activated Tcells (NFAT)^{[1][2]} **In Vitro:** NFAT Inhibitor treatment significantly inhibits nuclear translocation of NFATc1 for 24 hours. Long-term treatment with VIVIT significantly inhibits the cytoplasmic levels of cathepsin K, TRAP, and MMP-9^[2].

References:

- [1]. Aramburu J, et al. Affinity-driven peptide selection of an NFAT inhibitor more selective than cyclosporin A. *Science*. 1999 Sep 24;285(5436):2129-33.
- [2]. Ma JD, et al. Activation of the Peroxisome Proliferator-Activated Receptor γ Coactivator 1 β /NFATc1 Pathway in Circulating Osteoclast Precursors Associated With Bone Destruction in Rheumatoid Arthritis. *Arthritis Rheumatol*. 2019 Aug;71(8):1252-1264.

CAIndexNames:

L-Glutamic acid, L-methionyl-L-alanylglycyl-L-prolyl-L-histidyl-L-prolyl-L-valyl-L-isoleucyl-L-valyl-L-isoleucyl-L-threonylglycyl-L-prolyl-L-histidyl-L- α -glutamyl-

SMILES:

[MAGPHPVIVITGPHEE]

Caution: Product has not been fully validated for medical applications. For research use only.

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