Data Sheet

Product Name:	D[LEU4,LYS8]-VP (TFA)
Cat. No.:	CS-0131716
Molecular Formula:	$C_{49}H_{68}F_3N_{11}O_{13}S_2$
Molecular Weight:	1140.25
Target:	Vasopressin Receptor
Pathway:	GPCR/G Protein
Solubility:	H2O

{Mpa}-YFLNCPKG-NH_2 (Disulfide bridge:Mpa_1-Cys_6) (TFA salt)

BIOLOGICAL ACTIVITY:

D[LEU4,LYS8]-VP TFA is a selective agonist of **vasopressin V_{1b} receptor**, with the **K_is** of 0.16 nM, 0.52 nM, and 0.1.38 nM for rat, human and mouse **V_{1b}** receptor, respectively. D[LEU4,LYS8]-VP TFA has weak antidiuretic, vasopressor, and in vitro oxytocic activities[1][2]. IC50 & Target: vasopressin V_{1b} receptor[1]

References:

[1]. Ana P, et, al. Pharmacological and physiological characterization of d[Leu4, Lys8]vasopressin, the first V1b-selective agonist for rat vasopressin/oxytocin receptors. Endocrinology. 2007 Sep; 148(9): 4136-46.

[2]. Ana P, et, al. Design and synthesis of the first selective agonists for the rat vasopressin V(1b) receptor: based on modifications of deamino-[Cys1]arginine vasopressin at positions 4 and 8. J Med Chem. 2007 Feb 22; 50(4): 835-47.

CAIndexNames:

Glycinamide, N-(3-mercapto-1-oxopropyl)-L-tyrosyl-L-phenylalanyl-L-leucyl-L-asparaginyl-L-cysteinyl-L-prolyl-L-lysyl-, cyclic (1→5)-disulfide (TFA)

SMILES:

[{Mpa}-YFLNCPKG-NH2 (Disulfide bridge:Mpa1-Cys6) (TFA salt)]

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