Rev03
Update: Feb,10,2022

DATASHEET

PACAP (6-38), human, ovine, rat

Cat. No.: RP10338

Overview

Description	PACAP (6-38) is a potent antagonist of PACAP 38. PACAP (6-38) is much more potent and selective than PACAP (6-27) in the inhibition of PACAP-27-stimulated pituitary adenylate cyclase. Ki values for the inhibition of the enzyme were 7nM and 150 nM, respectively. PACAP (6-38) caused a small but significant (approximately 20%) inhibition of the NANC relaxation due to electrical field stimulation (1 Hz or 10 Hz for 20 s). At these frequencies PACAP (6-38) caused no inhibition of the NANC relaxation in the presence of the P2 purinoceptor antagonist pyridoxal-phosphate-6-azophenyl-2',4'-disulphonic acid (or PPADS) plus the NO-synthase blocker NG-nitro-L-arginine; in preparations pretreated with L-NOARG alone, PACAP (6-38) retained its inhibitory effect.
Sequence	{PHE}{THR}{ASP}{SER}{TYR}{SER}{ARG}{TYR}{ARG}{LYS}{GLN}{MET}{ALA}{VAL}{LYS}{LYS}{TYR}{LEU}{ALA}{ALA}{VAL}{LEU}{GLY}{LYS}{ARG}{TYR}{LYS}{GLN}{ARG}{VAL}{LYS}{ASN}{LYS}-NH_2
Sequence Shortening	FTDSYSRYRKQMAVKKYLAAVLGKRYKQRVKNK-NH_2
Molecular Formula	$C_{182}H_{300}N_{56}O_{45}S_1$
C Terminal	NH_2
Molecular Weight	4024.76

Properties

Purity	> 95%
Solubility	Soluble in water. The contents of this vial have been accurately determined. Both the stopper and the vial have been siliconized. Do not attempt to weigh out a smaller portion of the contents.
Form	Lyophilized
Storage	Store the peptide at -20°C.
Note	This peptide is a potent agonist.

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