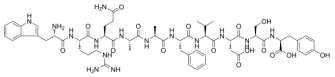
10Panx

Cat. No.:	HY-P1137
CAS No.:	955091-53-9
Molecular Formula:	$C_{58}H_{79}N_{15}O_{16}$
Molecular Weight:	1242.34
Sequence:	Trp-Arg-Gln-Ala-Ala-Phe-Val-Asp-Ser-Tyr
Sequence Shortening:	WRQAAFVDSY
Target:	Others
Pathway:	Others
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

DMSO : 10 mg/mL (8.05 mM; Need ultrasonic)

Preparing Stock Solutions	Solvent / Mass / Concentration	1 mg	5 mg	10 mg
	1 mM	0.8049 mL	4.0247 mL	8.0493 mL
	5 mM	0.1610 mL	0.8049 mL	1.6099 mL
	10 mM	---	---	---

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

In Vivo

1. Add each solvent one by one: 10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline
   Solubility: ≥ 1 mg/mL (0.80 mM); Clear solution
2. Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline)
   Solubility: ≥ 1 mg/mL (0.80 mM); Clear solution
3. Add each solvent one by one: 10% DMSO >> 90% corn oil
   Solubility: ≥ 1 mg/mL (0.80 mM); Clear solution

BIOLOGICAL ACTIVITY

Description

10Panx is a biological active peptide. (This is a Pannexin-1 (Panx1) mimetic blocking peptide. Pannexin-1 is a recently identified membrane protein that can form gap junction-like connections allowing intercellular passage of dyes when overexpressed in two adjacent oocytes or mammalian epithelial cell lines. Blockade of pannexin-1 in macrophage endogenously expressing the ATP-gated P2X7 receptor (P2X7R) blocks the initial dye uptake, but not the ionic current, and

	also blocks processing and release of interleukin-1b (IL-1b) in response to P2X7R activation.)

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

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