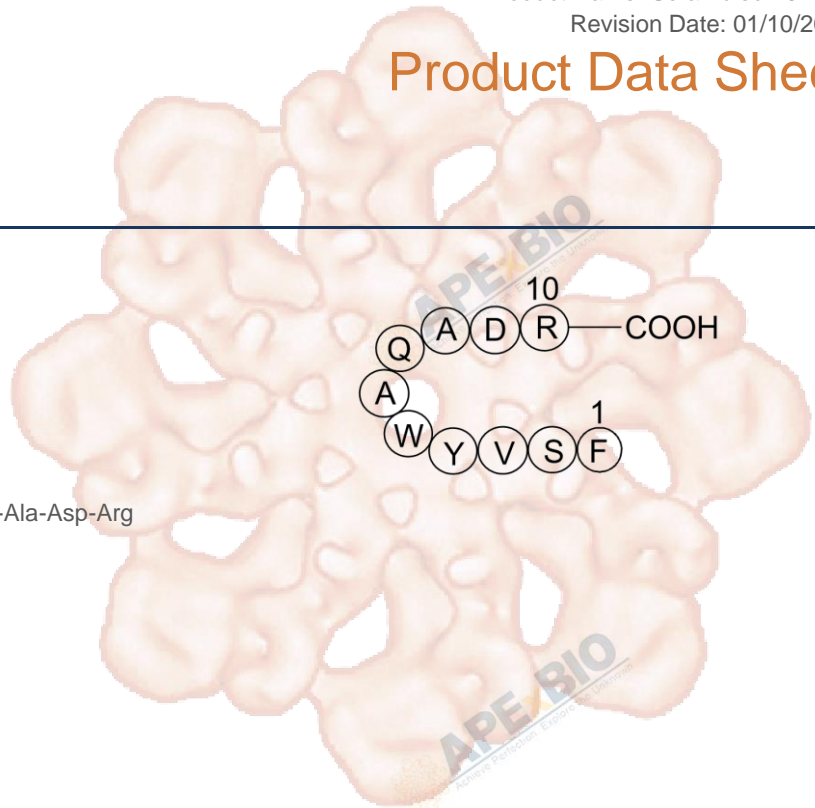


Product Data Sheet

Scrambled 10Panx

Cat. No.:	A2701
CAS No.:	1315378-72-3
Formula:	C58H79N15O16
M.Wt:	1242.37
Synonyms:	Scrambled 10Panx Phe-Ser-Val-Tyr-Trp-Ala-Gln-Ala-Asp-Arg
Target:	Neuroscience
Pathway:	Gap Junction
Storage:	Store at -20°C



Solvent & Solubility

≥31.05 mg/mL in DMSO

In Vitro

Preparing Stock Solutions	Solvent		Mass		
	Concentration		1mg	5mg	10mg
	1 mM		0.8049 mL	4.0246 mL	8.0491 mL
	5 mM		0.1610 mL	0.8049 mL	1.6098 mL
	10 mM		0.0805 mL	0.4025 mL	0.8049 mL

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

Biological Activity

Shortsummary

Panx-1 mimetic inhibitory peptide, blocks pannexin-1 gap junctions

IC₅₀ & Target

Cell Viability Assay

In Vitro

Cell Line:	Cultured human subcutaneous fibroblasts.
Preparation method:	Soluble to 0.50 mg/ml in sterile water. General tips for obtaining a higher concentration: Please warm the tube at 37°C for 10 minutes and/or shake it in the ultrasonic bath for a while. Stock solution can be stored below -20°C for several months.

	Reacting conditions:	100 μ M.
	Applications:	In cultured human subcutaneous fibroblasts, 10panx decreases the bradykinin-induced $[Ca^{2+}]_i$ response and attenuates bradykinin (30 μ M)-induced ATP release [1]. In oocytes, 10panx inhibits pannexin1 currents. In oocytes expressing pannexin1, 10panx attenuates dye uptake by pannexin1 channels [2].
In Vivo	Animal experiment	
	Applications:	

Product Citations

See more customer validations on www.apexbt.com.

References

- [1]. Pinheiro AR, Paramos-de-Carvalho D, Certal M, et al. Bradykinin-induced Ca^{2+} signaling in human subcutaneous fibroblasts involves ATP release via hemichannels leading to P2Y12 receptors activation. *Cell Commun Signal*, 2013, 11: 70.
- [2]. Wang J, Ma M, Locovei S, et al. Modulation of membrane channel currents by gap junction protein mimetic peptides: size matters. *Am J Physiol Cell Physiol*. 2007, 293(3): C1112-1119.

Caution

FOR RESEARCH PURPOSES ONLY.

NOT FOR HUMAN, VETERINARY DIAGNOSTIC OR THERAPEUTIC USE.

Specific storage and handling information for each product is indicated on the product datasheet. Most APEX BIO products are stable under the recommended conditions. Products are sometimes shipped at a temperature that differs from the recommended storage temperature. Shortterm storage of many products are stable in the short-term at temperatures that differ from that required for long-term storage. We ensure that the product is shipped under conditions that will maintain the quality of the reagents. Upon receipt of the product, follow the storage recommendations on the product data sheet.

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