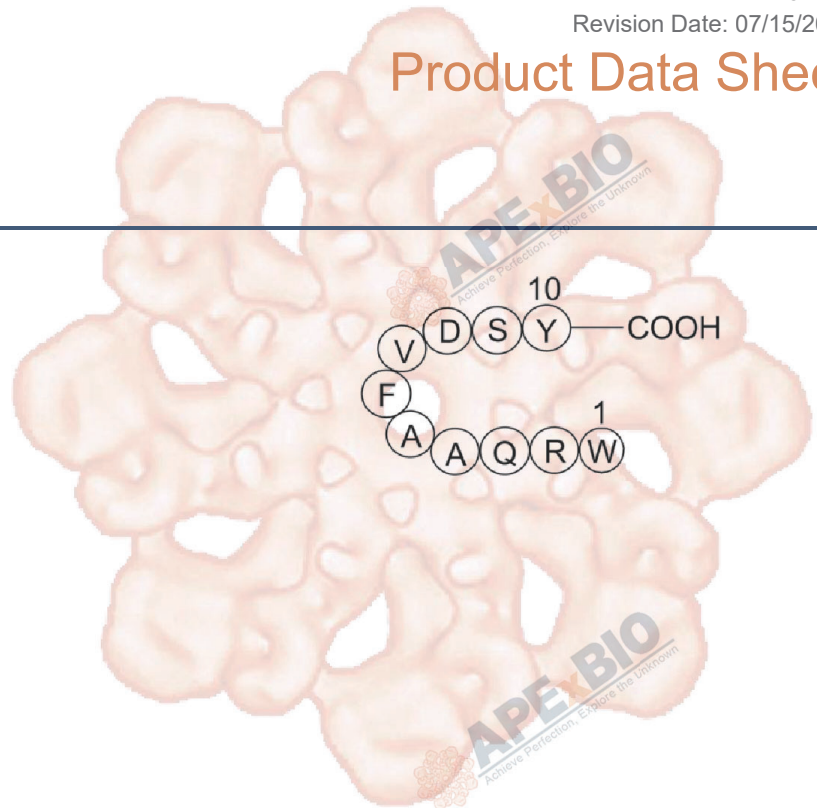


Product Data Sheet

10Panx

Cat. No.:	A2700
CAS No.:	955091-53-9
Formula:	C58H79N15O16
M.Wt:	1242.37
Synonyms:	10Panx
Target:	Neuroscience
Pathway:	Gap Junction
Storage:	Store at -20°C



Solvent & Solubility

≥ 124.2 mg/mL in DMSO; insoluble in EtOH; ≥ 4.26 mg/mL in H₂O with ultrasonic

In Vitro

Preparing Stock Solutions	Solvent	Mass		
		1mg	5mg	10mg
	Concentration			
	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 inhibitor

IC₅₀ & Target

In Vitro

Cell Viability Assay

Cell Line:	Human red blood cells (RBCs)
Preparation method:	The solubility of this peptide in sterile water is >10 mM. Stock solution should be split and stored at -80°C for several months.
Reacting conditions:	200 μM,
Applications:	10Panx reduced ATP release in response to lowered pO ₂ by 90.9±15.5%. It did

		not reduce ILO-induced ATP release.
In Vivo	Animal experiment	
	Applications:	
	Other notes:	Please test the solubility of all compounds indoor, and the actual solubility may slightly differ with the theoretical value. This is caused by an experimental system error and it is normal.

Product Citations

1. Gao J, Zhang T, et al. "The F0F1 ATP synthase regulates human neutrophil migration through cytoplasmic proton extrusion coupled with ATP generation." Mol Immunol. 2017 Aug 23;90:219-226.PMID:28843171

See more customer validations on www.apexbt.com.

References

[1] Sridharan M, Adderley S, Bowles E, et al. Pannexin 1 (PANX1) is a Conduit for ATP Released from Human Red Blood Cells (RBCs) Exposed to Low Oxygen Tension. The FASEB Journal, 2010.

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 APExBIO products are stable under the recommended conditions. Products are sometimes shipped at a temperature that differs from the recommended storage temperature. Short-term 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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