

## ShK-Dap22

<b>Cat. No.:</b>	HY-P1274	
<b>CAS No.:</b>	220384-25-8	
<b>Molecular Formula:</b>	C <sub>166</sub> H <sub>268</sub> N <sub>54</sub> O <sub>48</sub> S <sub>7</sub>	
<b>Molecular Weight:</b>	4012.69	RSCIDTIPKSRCTAFQCKHSM(Dpr)YRLSFCRKTGTC (Disulfide bridge:Cys3-Cys35;Cys12-Cys28;Cys17-Cys32)
<b>Sequence:</b>	Arg-Ser-Cys-Ile-Asp-Thr-Ile-Pro-Lys-Ser-Arg-Cys-Thr-Ala-Phe-Gln-Cys-Lys-His-Ser-Met-{Dpr}-Tyr-Arg-Leu-Ser-Phe-Cys-Arg-Lys-Thr-Cys-Gly-Thr-Cys (Disulfide bridge:Cys3-Cys35;Cys12-Cys28;Cys17-Cys32)	
<b>Sequence Shortening:</b>	RSCIDTIPKSRCTAFQCKHSM{Dpr}YRLSFCRKTGTC (Disulfide bridge:Cys3-Cys35;Cys12-Cys28;Cys17-Cys32)	
<b>Target:</b>	Potassium Channel	
<b>Pathway:</b>	Membrane Transporter/Ion Channel	
<b>Storage:</b>	Please store the product under the recommended conditions in the COA.	

### BIOLOGICAL ACTIVITY

<b>Description</b>	ShK-Dap22 is a potent Kv1.3-specific immunosuppressive Polypeptide. ShK-Dap22 is a selective Kv1.3 channel blocker with IC <sub>50</sub> s of 23 pM, 1.8 nM, 10.5 nM, 37 nM, and 39 nM for mKv1.3, mKv1.1, hKv1.6, mKv1.4, and rKv1.2 channels, respectively <sup>[1]</sup> .
<b>In Vitro</b>	ShK-Dap22 suppresses T cell activation in vitro. ShK-Dap22, at subnanomolar concentrations, suppresses anti-CD3 induced human T-lymphocyte [ <sup>3</sup> H]thymidine incorporation in vitro <sup>[1]</sup> .

### REFERENCES

[1]. K Kalman, et al. ShK-Dap22, a Potent Kv1.3-specific Immunosuppressive Polypeptide. J Biol Chem. 1998 Dec 4;273(49):32697-707.

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

Tel: 609-228-6898

Fax: 609-228-5909

E-mail: tech@MedChemExpress.com

Address: 1 Deer Park Dr, Suite Q, Monmouth Junction, NJ 08852, USA