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**Product Data Sheet**

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Product Name: AKOS-22  
Cat. No.: GC39620

**Chemical Properties**

Cas. No. 878983-38-1

SMILES O=C(C(N1CCC(NC2=CC=C(OC(F)(F)F)C=C2)CC1)C3)N(C4=CC=C(Cl)C=C4)C3=O

Formula  $C_{22}H_{21}ClF_3N_3O_3$  M.Wt 467.87

Solubility DMSO: 125 mg/mL (267.17 mM) Storage Store at -20°C

General tips For obtaining a higher solubility, please warm the tube at 37 °C and shake it in the ultrasonic bath for a while. Stock solution can be stored below -20°C for several months.

Shipping Condition Evaluation sample solution : ship with blue ice All other available size: ship with RT, or blue ice upon request.

Structure

**Background**

AKOS-22 is a potent mitochondrial protein VDAC1 (voltage-dependent anion channel 1) inhibitor ( $K_d=15.4 \mu\text{M}$ ). AKOS-22 interacts with VDAC1 and inhibiting both VDAC1 oligomerization and apoptosis. AKOS-22 protects against mitochondrial dysfunction[1].

[1]. Ben-Hail D, et al. Novel Compounds Targeting the Mitochondrial Protein VDAC1 Inhibit Apoptosis and Protect against Mitochondrial Dysfunction. Biol Chem. 2016 Nov 25;291(48):24986-25003.

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

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