Inhibitors of mitochondrial electron and substrate transport, and agents acting on ion transport.

| Inhibitor | Conc. | Effect |
|---------------------------|-------------------------------------------------|--------------------------------------------------------------------------------------------------------------|
| | | Complex I: NADH dehydrogenase, FMN, Fe/S centres |
| rotenone | 5 μM 10 μM | inhibition of NADH-DH. muscle fibers (Gellerich et al.). |
| amytal | 10 μινι | inhibition of NADH-DH; barbiturate drug. |
| piericidine | | competitive inhibitor of NADH-DH, ubiquinone structure; antibiotic. |
| | | Complex II : Succinate dehydrogenase, FAD, Fe/S, <i>b</i> -type haem |
| malonate | | competitive inhibition of SDH. |
| _ | | Complex III: Cytochrome bc ₁ , Rieske Fe/S |
| antimycin A | 6.5 µM | blocks between cyt <i>b</i> to cyt <i>c</i> ; antibiotic; for permeablized muscle fibers (Gellerich et al.). |
| myxothiazol | | inhibits also Complex I (Lenaz) |
| - | | Complex IV : Cytochrome <i>aa</i> ₃ oxidase, Cu ions |
| cyanide | | |
| azide | 1 mM | |
| sulfide | | |
| CO | | |
| NO | | competitive inhibitor of COX. |
| _ | | Uncouplers |
| DNP | | |
| FCCP | | |
| CCCP | | |
| | | Ion transport |
| oligomycin | 1 μg⋅mg ⁻¹ P | inhibition of H^+ transport through ATPase. |
| valinomycin | $150 \text{ ng} \cdot \text{mg}^{-1} \text{ P}$ | catalyzes electrogenic K^+ transport down the |
| nigericin | 27 pmol⋅mg ⁻¹ P | electrochemical transmembrane gradient. catalyzes K^+/H^+ antiport. |
| mersalyl | 27 philot high 1 | inhibition of P_i symporter. |
| N-ethylmaleimide | | blocks endogenous P_i transport. |
| _ | | Substrate transport |
| - carboxyatractyloside | 10 μ M | inhibition of adenlyate translocase. |
| α-cyanohydroxycinnamate | 0.65 mM | inhibition of pyruvate transport. |
| phenylsuccinate | 20 mM | competitive inhibition of succinate transport. |
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