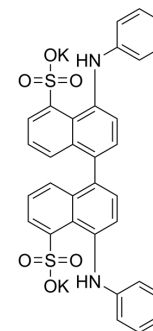


Bis-ANS dipotassium

Cat. No.:	HY-129811
CAS No.:	65664-81-5
Molecular Formula:	C ₃₂ H ₂₂ K ₂ N ₂ O ₆ S ₂
Molecular Weight:	672.85
Target:	Microtubule/Tubulin
Pathway:	Cell Cycle/DNA Damage; Cytoskeleton
Storage:	-20°C, sealed storage, away from moisture and light * In solvent : -80°C, 6 months; -20°C, 1 month (sealed storage, away from moisture and light)



BIOLOGICAL ACTIVITY

Description	Bis-ANS dipotassium is a fluorescent probe of hydrophobic protein. Bis-ANS binds to tubulin with a K_d of 2 μM ^[1] . Bis-ANS dipotassium is a potent biphasic modulator of protein liquid-liquid phase separation (LLPS). Bis-ANS dipotassium promotes LLPS at low concentrations but suppresses LLPS at high concentrations ^[2] .
In Vitro	Bis-ANS is a fluorescent molecule that has been used to probe exposed hydrophobic patches in proteins and to monitor the formation of protein aggregates. Bis-ANS is a bivalent naphthalene sulfonate with aniline moieties. Bis-ANS modulates the liquid-liquid phase separation of TDP-43 low complexity domain (LCD) ^[2] . MCE has not independently confirmed the accuracy of these methods. They are for reference only.

REFERENCES

- [1]. P Horowitz, et al. Bis(1,8-anilino)naphthalenesulfonate). A novel and potent inhibitor of microtubule assembly. J Biol Chem. 1984 Dec 10;259(23):14647-50.
- [2]. W. Michael Babinchak, et al. Small molecules as potent biphasic modulators of protein liquid-liquid phase separation. Nature Communications volume 11, Article number: 5574 (2020)

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

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