

Bis-ANS, protein conformation probe

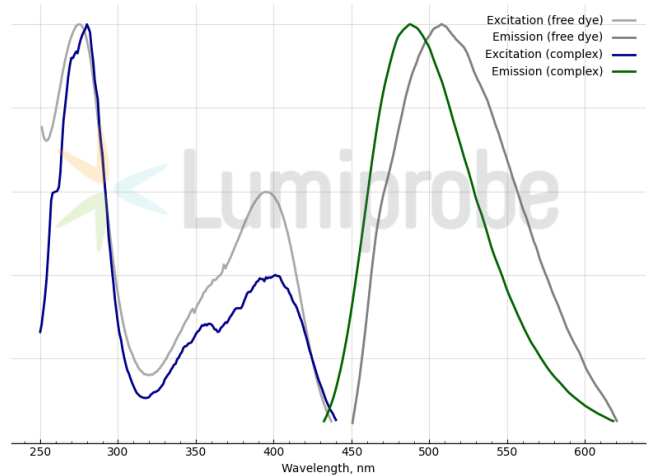
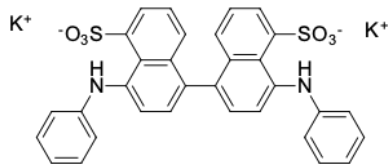
<http://cn.lumiprobe.com/p/bis-ans-65664-81-5>

Bis-ANS is a high-affinity fluorescent probe for nonpolar cavities in proteins. Its hydrophobic phenyl and naphthyl rings interact noncovalently with proteins and protein degradation products.

As with other anilino-naphthalene sulfonates (ANS), bis-ANS is essentially nonfluorescent in water but becomes noticeably fluorescent in a nonpolar environment. When free, bis-ANS has an excitation maximum at 390 nm and an emission maximum at 523 nm but undergoes a blue shift with an increase in fluorescence intensity when bound to protein.

Bis-ANS is frequently used to monitor the formation of protein aggregates and indicate protein folding and conformational changes. bis-ANS binds to tubulin and can be used for cell visualization^[1]. The dye is also used to detect A β fibers^[2].

[1] Brain Res. Bulletin. 2011, 86, 3-4. 217-221; [2] Biochemistry. 2015, 54, 28, 4297-4306.



外观: 淡黄绿色晶体

分子 672.87

量:

CAS 65664-81-5

编号:

分子 C₂₂H₂₂K₂N₂O₆S₂

式:

IUPAC dipotassium;8-anilino-5-(4-anilino-5-sulfonatophthalen-1-yl)naphthalene-1-sulfonate

名称:

溶解 DMF: 30 mg/ml, DMSO: 30 mg/ml, 乙醇: 微溶, PBS (pH 7.2): 5 mg/ml

度:

质量 NMR ¹H 和 HPLC-MS (95+%)

控制:

储存 收到后在 -20°C 黑暗条件下可保存 24 个月。运输: 室温下最多可保存 3 周。干燥。

条件:

法律 本产品仅供研究目的提供和销售。 本产品并未经过食品、药品、医疗器械、化妆品等领域的安全性和效力测试, 且未经明示或暗示授权用于其他任何用途, 包括但不限于体外诊断、人类或动物用途, 以及商业用途。

激发/ 396 (free), 401 (complex)

吸收

极大

值,

纳米:

发射 508 (free), 488 (complex)

极大

值,

纳米: