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Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

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Product Information

ANTS (8-aminonaphthalene-1,3,6-trisulfonic acid, disodium salt)

Catalog Number: 90010

Unit Size: 500 mg

Storage and Handling

Store solid at 4°C and protect from light. Stock solutions may be prepared in water and should be stored at 4°C away from light. Product is stable for at least 12 months from date of receipt when stored as recommended.

Molecular Information: C₁₀H₇NNa₂O₃S₃

CAS number: 5398-34-5

Molecular Weight: 427

Color and Form: Off-white solid

Solubility: Soluble in water

Absorption/Emission: 353/520 nm

Extinction Coefficient: 6,200

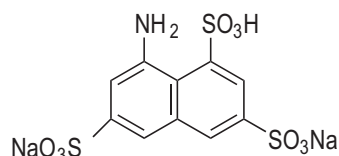


Figure 1. ANTS (8-aminoaphthalene-1,3,6-trisulfonic acid, disodium salt)

Product Description

ANTS is a highly negatively charged dye with an amino group that can be coupled to an aldehyde or ketone group to form an unstable Schiff base. Typically, the Schiff base is chemically reduced by sodium borohydride (NaBH₄) or sodium cyanoborohydride (NaB(CN)H₃) to form a stable linkage. This labeling technique has been widely used for the labeling and subsequent sequencing of oligosaccharides and glycoproteins. The negative charges of the dye facilitate the electrophoretic separation of the degradation products of carbohydrate polymers.

ANTS has also been used together with the fluorescent quencher DPX (see related products) for the studies of membrane fusion or permeability. The mixture of ANTS-DPX is minimally fluorescent initially, but becomes increasingly more fluorescent when dilution (i.e., membrane fusion or leakage) occurs.

References

- 1) Electrophoresis 12, 94(1991); 2) Anal. Biochem. 222, 270(1994);
- 3) Biochemistry 29, 1309(1990).

Related Products

Catalog number	Product
80012	DPX
90028	APTS
90082	DMSO, Anhydrous
96009	Cyanine 555 Aminoxy
96008	Cyanine 647 Aminoxy
92166	CF@488DI Hydrazide
92164	CF@555DI Hydrazide
92165	CF@647DI Hydrazide
92184	CF@660DI Hydrazide
92185	CF@680DI Hydrazide
92151	CF@350 Hydrazide
92183	CF@405S Hydrazide
96063	CF@430 Hydrazide
96064	CF@440 Hydrazide
92152	CF@488A Hydrazide
92154	CF@568 Hydrazide
92158	CF@594 Hydrazide
92156	CF@633 Hydrazide
92157	CF@640R Hydrazide
92136	CF@647 Hydrazide
96024	CF@660R Hydrazide
96025	CF@680R Hydrazide
92192	CF@770 Hydrazide

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