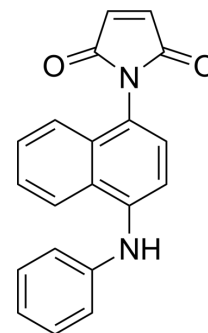


N-(4-Anilino-1-naphthyl)maleimide

| | |
|--------------------|---|
| Cat. No.: | HY-D1526 |
| CAS No.: | 50539-45-2 |
| Molecular Formula: | C ₂₀ H ₁₄ N ₂ O ₂ |
| Molecular Weight: | 314.34 |
| Target: | Fluorescent Dye |
| Pathway: | Others |
| Storage: | Please store the product under the recommended conditions in the Certificate of Analysis. |



BIOLOGICAL ACTIVITY

| | |
|--------------------|--|
| Description | N-(4-Anilino-1-naphthyl)maleimide is a fluorescent probe that can be used to detect thiol groups in proteins. N-(4-Anilino-1-naphthyl)maleimide reacts with thiol groups and immediately produces a stable fluorescent compound with the λ_{ex} =355 nm, λ_{em} =448 nm ^[1] . |
| In Vitro | N-(4-Anilino-1-naphthyl)maleimide can be used to label rabbit muscle fibers and its fluorescence spectrum reflects their conformational changes between relaxed or contracted states ^[2] . MCE has not independently confirmed the accuracy of these methods. They are for reference only. |

REFERENCES

[1]. T Honda, et al. Characterization of the reactivity of sulphhydryl groups in tryptophanase by a dual-monitoring high-performance liquid chromatographic system with a site-directed fluorescent reagent. *J Chromatogr.* 1986 Dec 26;371:353-60.

[2]. S Chaen, et al. Fluorescence properties and contraction characteristics of ANM (N-(1-anilino-4-naphthyl)maleimide)-labeled rabbit psoas muscle fibers. *J Biochem.* 1985 Oct;98(4):939-47.

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

Tel: 609-228-6898

Fax: 609-228-5909

E-mail: tech@MedChemExpress.com

Address: 1 Deer Park Dr, Suite Q, Monmouth Junction, NJ 08852, USA